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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C

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SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS) SANTA AN--ETC(U)

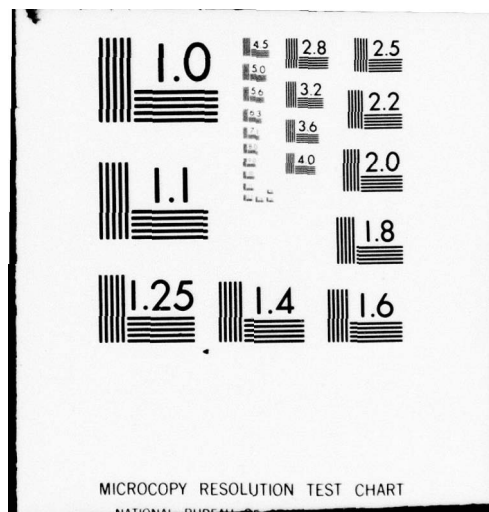
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DIRECTOR

NAVAL OCEANOGRAPHY AND METEOROLOGY

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(Summary of Meteorological Observations, Surface)

Prepared by
Naval Weather Service Detachment
Federation Building
Asheville, N. C. 28801

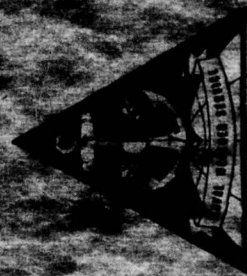
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/ Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure		

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UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

STATION NO ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV (FT)	CALL SIGN	WMO NUMBER
93114	Santa Ana, California	33°42'N	117°50'W	54	KNTK	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARQ LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office	MCAF	1951	1965	33°42'N	117°49'W	61	Mercurial	Var
2.	West wall, weather service office	"	1965		"	117°50'W	61	"	"
1a.	GMQ, 14B console	"	1966		"	"	63	Aneroid	"

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed 1952	Atop hangar	*Selsyn		200'	1. Barograph (ML-3-A) 2. Hygrothermograph 3. Ceiling light (ML-121) 4. Cloud height set (GMQ-13) 5. Theodolite (R-18-I 581) 6. Transmissometer (GMQ-10) 7. Semi-auto met sta (GMQ-14B)
1a.	1960	150' west of runway 24	**UMQ-5	RD-108B	10'	
		* Date disassembled unknown. ** Date first installed unknown.				

SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

DIRNAVOCEANMET ltr 3146 Ser 1032 dated 26 August 1977 (NOTAL) established the following policy for SMOS production and updating:

1. Ten years of data will be used as the standard period of record (POR).
2. All available data will be used for extreme values.
3. Summarize (update) every five years.
 - a. Summarize the five year period (1973-1977) for all sections of the SMOS except extremes. The 5 year summary will be an intermediate SMOS to show secular trends. All available data through 1977 will be included for extreme values.
 - b. The update in 1983 will include the POR 1973 through 1982, with all available data through 1982 for extreme values.
 - c. The update in 1988 will be an intermediate SMOS (POR 1983-1987). All available data through 1987 will be included for extreme values.
 - d. In 1993 the POR will be 1983 through 1992. All available data through 1992 will be used for extreme values.

Each standard POR (10 years) summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during, the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of ".0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Weather Service Detachment (NWS), Asheville, N. C. welcomes your comment and criticisms.

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

PART A

ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than $5/8$ mile.

Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency of occurrences.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

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JAN
MONTH

73-77
YEARS

SANTA ANA, CALIFORNIA
STATION NAME

93114
STATION

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	01		7.1				7.1	16.8	2.6			19.4	155
	04		3.9				3.9	18.7	1.3			20.0	155
	07		7.1				7.1	20.6	3.2			23.9	155
	10		5.2				5.2	7.1	20.0			26.5	155
	13		5.8				5.8	3.2	20.0		.6	23.2	155
	16		5.8				5.8	2.6	22.6			25.2	155
	19		5.8				5.8	7.1	9.0			16.1	155
	22		5.2				5.2	14.2	4.5			18.7	155
TOTALS			5.7				5.7	11.3	10.4		.1	21.6	1240

WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

FEB
MONTH

73-77
YEARS

SANTA ANA, CALIFORNIA
STATION NAME

93114
STATION

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	01		4.3				4.3	21.3	2.8			24.1	141
	04		7.1				7.1	26.2	1.4			27.7	141
	07		5.7				5.7	26.2	3.5			29.1	141
	10		7.1				7.1	10.6	25.5			36.2	141
	13	1.4	6.4				6.4	3.5	24.8			28.4	141
	16	.7	7.1				7.1	2.8	17.0			19.9	141
	19		5.7				5.7	5.7	6.4			12.1	141
	22		7.1				7.1	13.5	2.1			15.6	141
TOTALS		.3	6.3				6.3	13.7	10.4			24.1	1128

WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

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MAR
MONTH

73-77
YEARS

SANTA ANA, CALIFORNIA
STATION NAME

93114
STATION

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBS TO VISION	TOTAL NO. OF OBS.
MAR	01		4.5				4.5	6.5	2.6			8.4	155
	04		7.1				7.1	9.7	1.3			10.3	155
	07		8.4				8.4	17.4	5.8			22.6	155
	10	.6	6.5				6.5	3.2	14.8			18.1	155
	13		5.2				5.2	1.3	14.8			16.1	155
	16		1.9				1.9	.6	7.1			7.7	155
	19		4.5				4.5	1.9	3.2			5.2	155
	22	.6	3.9				3.9	5.8	.6			6.5	155
TOTALS		.2	5.3				5.3	5.8	6.3			11.9	1240

WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

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APR
MONTH

73-77
YEARS

SANTA ANA, CALIFORNIA
STATION NAME

93114
STATION

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	01		4.0				4.0	11.3	5.3			16.7	150
	04		4.7				4.7	17.3	4.7			20.7	150
	07		4.0				4.0	14.7	13.3			28.0	150
	10		3.3				3.3	2.0	23.3			25.3	150
	13		2.7				2.7		20.7			20.7	150
	16		2.7				2.7		13.3			13.3	150
	19		3.3				3.3	3.3	8.7			12.0	150
	22		4.0				4.0	8.0	5.3			12.7	150
TOTALS			3.6				3.6	7.1	11.8			18.7	1200

WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

STATION 93114 SANTA ANA, CALIFORNIA 73-77 YEARS MONTH MAY

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	01		4.5				4.5	21.3	5.2			26.5	155
	04		9.7				9.7	27.7	4.5			31.6	155
	07		9.7				9.7	31.6	20.6			50.3	155
	10		.6				.6	5.2	34.2			38.7	155
	13		2.6				2.6		29.7			29.7	155
	16		.6				.6		21.3			21.3	155
	19		1.9				1.9	5.8	18.1			23.2	155
	22		1.3				1.3	14.3	8.4			22.1	154
TOTALS			3.9				3.9	13.2	17.8			30.4	1239

WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

93114
STATIONSANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JUN
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	01		1.3				1.3	21.3	10.0			31.3	150
	04		5.3				5.3	38.0	8.0			43.3	150
	07		6.7				6.7	41.3	28.7			70.0	150
	10		2.0				2.0	3.3	52.0			55.3	150
	13								40.7			40.7	150
	16		.7				.7		26.7			26.7	150
	19							1.3	23.3			24.7	150
	22		1.3				1.3	14.0	9.3			23.3	150
TOTALS			2.2				2.2	14.9	24.8			39.7	1200

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WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

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STATION 93114 SANTA ANA, CALIFORNIA 73-77 JUL MONTH YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	01							22.6	9.0			31.0	155
	04		1.3				1.3	37.4	12.9			49.7	155
	07		3.9				3.9	35.5	40.6			74.8	155
	10		.6				.6	1.9	54.2			56.1	155
	13		.6				.6		37.4			37.4	155
	16		.6				.6		22.6			22.6	155
	19							3.9	20.0			23.9	155
	22							14.8	7.7			22.6	155
TOTALS			.9				.9	14.5	25.6			39.8	1240

WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

93114

SANTA ANA, CALIFORNIA

73-77

AUG

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	01		1.9				1.9	25.8	6.5			32.3	155
	04		.6				.6	41.3	7.7			49.0	155
	07		1.3				1.3	41.9	30.3			72.3	155
	10		.6				.6	3.9	59.4			63.2	155
	13		1.3				1.3	.6	47.1			47.7	155
	16		.6				.6	1.3	25.2			26.5	155
	19		1.3				1.3	1.9	23.2			25.2	155
	22		.6				.6	16.2	8.4			22.6	155
TOTALS			1.0				1.0	16.4	26.0			42.4	1240

WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

93114
STATIONSANTA ANA, CALIFORNIA
STATION NAME

73-77

SEP
MONTH

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	01		2.7				2.7	23.3	9.3			32.7	150
	04		3.3				3.3	32.7	11.3			44.0	150
	07	.7	6.0				6.0	40.0	20.7			60.7	150
	10		1.3				1.3	6.0	55.3			60.7	150
	13	.7	1.3				1.3	1.3	44.7			46.0	150
	16	.7	1.3				1.3		30.0			30.0	150
	19		1.3				1.3	9.3	17.3			26.7	150
	22		.7				.7	14.0	12.0			26.0	150
TOTALS		.3	2.2				2.2	15.8	25.1			40.9	1200

WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

93114

STATION NAME
SANTA ANA, CALIFORNIA

73-77

OCT

MONTH

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	01		1.3				1.3	32.9	7.7			40.6	155
	04		6.5				6.5	39.4	4.5			43.9	155
	07		10.3				10.3	40.6	14.8			55.5	155
	10		1.9				1.9	3.9	47.7			51.6	155
	13		1.3				1.3		41.9			41.9	155
	16		.6				.6	.6	32.9			33.5	155
	19		.6				.6	7.1	21.3			28.4	155
	22							27.7	5.8			32.9	155
TOTALS			2.8				2.8	19.0	22.1			41.0	1240

WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

NOV
MONTH

73-77
YEARS

93114 STATION NAME
SANTA ANA, CALIFORNIA

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	01		2.0				2.0	24.0	6.0			30.0	150
	04	.7	4.7				4.7	24.7	6.0			30.7	150
	07		4.0				4.0	26.7	4.7			31.3	150
	10		1.3				1.3	10.0	24.0			34.0	150
	13		.7				.7	.7	31.3			32.0	150
	16		.7				.7		28.7			28.7	150
	19	.7	1.3				1.3	8.0	16.7			24.7	150
	22		2.7				2.7	21.3	8.7			30.0	150
TOTALS		.2	2.2				2.2	14.4	15.8			30.2	1200

WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

DEC
MONTH

73-77
YEARS

93114 STATION NAME
SANTA ANA, CALIFORNIA

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBS TO VISION	TOTAL NO. OF OBS.
DEC	01		5.2				5.2	29.0	4.5			33.5	155
	04		9.0				9.0	29.7	1.9			31.6	155
	07		3.2				3.2	28.4	7.7			35.5	155
	10		3.2				3.2	10.3	29.7		.6	40.0	155
	13	.6	3.9				3.9	2.6	36.1			38.7	155
	16		4.5				4.5	2.6	31.0		.6	34.2	155
	19		2.6				2.6	14.2	11.6			25.8	155
	22		5.2				5.2	23.9	5.8			29.7	155
TOTALS		.1	4.6				4.6	17.6	16.0		.2	33.6	1240

WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

ALL
MONTH

73-77

SANTA ANA, CALIFORNIA

93114
STATION

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL		5.7				5.7	11.3	10.4		.1	21.6	1240
FEB		.3	6.3				6.3	13.7	10.4			24.1	1128
MAR		.2	5.3				5.3	5.8	6.3			11.9	1240
APR			3.6				3.6	7.1	11.8			18.7	1200
MAY			3.9				3.9	13.2	17.8			30.4	1239
JUN			2.2				2.2	14.9	24.8			39.7	1200
JUL			.9				.9	14.5	25.6			39.8	1240
AUG			1.0				1.0	16.4	26.0			42.4	1240
SEP		.3	2.2				2.2	15.8	25.1			40.9	1200
OCT			2.8				2.8	19.0	22.1			41.0	1240
NOV		.2	2.2				2.2	14.4	15.8			30.2	1200
DEC		.1	4.6				4.6	17.6	16.0		.2	33.6	1240
TOTALS		.1	3.4				3.4	13.6	17.7		.0	31.2	14607

NAVWEASERVCOM

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WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

93114

STATION

SANTA ANA, CALIFORNIA

STATION NAME

91-52, 63,

YEARS

68-77

ALL

MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY	1.0	26.3		.3	.7	26.3	44.4	40.6		.3	53.9	293
FEB		1.9	25.2			.4	25.2	45.0	43.1			56.1	262
MAR		2.6	22.3				22.3	37.4	34.2			43.9	310
APR		.4	16.8				16.8	28.7	27.6			37.6	279
MAY		.3	23.2				23.2	43.5	49.0			56.1	310
JUN		1.0	21.7				21.7	54.0	62.7			70.0	300
JUL		.3	7.1				7.1	57.7	73.8			80.1	336
AUG		.3	6.1				6.1	48.1	69.4		.3	73.9	310
SEP		2.8	12.5				12.5	51.2	66.6			71.8	287
OCT		2.2	19.7			.4	19.7	47.7	55.6		.4	62.7	279
NOV		1.3	18.2			.3	18.2	45.5	46.2		.3	57.0	314
DEC		1.9	24.8			.3	24.8	43.7	43.1			54.1	318
TOTALS		1.3	18.7		.0	.2	18.7	45.6	51.0		.1	59.8	3598

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93114 STATION NAME JAN 73 - DEC 77 MONTH YEAR ALL HOURS (L.S.T.)

SANTA ANA, CALIFORNIA

JANUARY

ALL

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	7.1	3.6							7.1	7.1				75.0
NNE									5.0	10.0	2.5			82.5
NE	2.0	1.0							3.0	2.0	3.0		1.0	88.0
ENE	4.1		1.4						6.8	4.1	5.5			82.2
E	5.5	1.4							2.7	6.8	5.5			79.5
ESE	15.8		5.3						10.5	5.3	5.3			63.2
SE	8.2	6.1							12.2		6.1			67.3
SSE	11.4	6.8	2.3						13.6	4.5	2.3			65.9
S	8.3	8.3	2.8						11.1		2.8			72.2
SSW	7.1		7.1						4.8	2.4	19.0			64.3
SW		2.9							5.9	2.9	17.6			70.6
WSW	1.3	1.3							4.0	2.7	32.0			60.0
W	.9	1.3							2.8	1.8	22.0			71.6
WNW	5.7		2.9						6.7	6.7	17.1			77.1
NW	6.7								7.1		13.3			73.3
NNW											7.1			85.7
VARIABLE														
CALM	1.1	1.2	1.7						5.7	9.7	8.7			74.7
TOTAL	42	17	12						71	69	128		1	921
% TOTAL	3.4	1.4	1.0						5.7	5.6	10.3		.1	74.3

TOTAL NUMBER OF OBSERVATIONS

1,240

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PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

93114

SANTA ANA, CALIFORNIA

JAN 73 - DEC 77

FEBRUARY

ALL

HOURS (U.S.T.)

MONTH

YEARS

STATION NAME

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	6.7									13.3				80.0
NNE	3.4	3.4	3.4						3.4					86.2
NE									2.1	2.1	6.4			89.4
ENE	1.1								11.4	4.3	3.4			79.3
E	4.1	6.8							16.2	1.4	1.4			71.6
ESE	6.3	6.3							19.6	2.2	10.9			56.3
SE	12.3	4.2	2.1						10.4	6.3	8.3			64.6
SSE	3.1	23.6	3.1						17.9					59.0
S	7.0	4.2	1.4						11.3	1.4	12.7			66.2
SSW	3.3	3.3	1.8						3.3	1.8	19.3			66.7
SW	3.6	3.6						2.8	2.8	2.8	22.2			61.1
WSW	.9	2.7							1.8	.9	21.8			72.7
W	1.0	1.0						1.9			22.3			74.8
WNW	10.0	3.0							13.0	3.0	10.0			63.0
NW									16.7		23.0			73.0
NNW											16.7			66.7
VARIABLE														
CALM														
TOTAL	31	34	6					3	103	52	117			804
% TOTAL	2.7	3.0	.5					.3	9.1	4.6	10.4			71.3

TOTAL NUMBER OF OBSERVATIONS 1,128

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

STATION 93114 SANTA ANA, CALIFORNIA JAN 73 - DEC 71 MONTH MARCH ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		5.0							5.0					90.0
NNE	4.3	4.3						4.3		4.3	13.0			69.6
NE									6.1	2.0	6.1			87.8
ENE									7.7	2.6	5.1			87.2
E	3.9	2.0							11.8	9.8	7.8			68.6
ESE	8.7	6.5						2.2	10.9	2.2				73.9
SE	13.3	6.7	1.7						1.7		3.3			73.3
SSE	2.2	8.7	2.2						6.5	4.3	4.3			76.1
S	11.4								2.5	1.3	8.9			79.7
SSW	1.2	2.4									4.9			91.5
SW	1.9										9.6			90.4
WSW	.7	1.5							1.5	.7	7.3			89.1
W		2.1	.7						.7		12.9			83.6
WNW	9.5	9.5							14.3		19.0			61.9
NW														100.0
NNW											40.0			60.0
VARIABLE														
CALM	1.3	1.1							3.7	4.0	3.2			87.3
TOTAL	35	27	3					2	44	28	78			1041
% TOTAL	2.3	2.2	.2					.2	3.5	2.3	6.3			84.0

TOTAL NUMBER OF OBSERVATIONS 1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

STATION 93114 SANTA ANA, CALIFORNIA STATION NAME JAN 73 - DEC 77 YEARS APRIL MONTH ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N											11.1			68.9
NNE									27.3					72.7
NE	4.2								4.2					91.7
ENE	3.0	3.0	6.1						18.2	3.0	6.1			66.7
E		4.2							12.5		2.1			79.2
ESE		2.4	2.4						2.4	4.9	9.8			80.5
SE		3.6							3.6	3.6	1.8			89.1
SSE	2.2		2.2						8.9	4.4	8.9			75.6
S	1.1	3.4	2.2							5.4	13.0			76.1
SSW		1.1							1.1	2.3	17.2			77.0
SW		2.7							2.7	1.4	16.4			76.7
WSW		.7							.7		23.1			75.3
W	2.1	.7							4.3		12.8			82.3
WNW		8.3									4.2			87.5
NW											10.0			90.0
NNW	25.0								25.0		50.0			25.0
VARIABLE														
CALM	1.1	1.9							6.4	3.6	8.9			90.2
TOTAL	12	25	6						57	28	139			947
% TOTAL	1.0	2.1	.5						4.6	2.3	11.6			78.9

TOTAL NUMBER OF OBSERVATIONS 1,200

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

JAN 73 - DEC 77
YEARS

MAY
MONTH

ALL
HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET "SHOWERS ICE CRYSTALS	SNOW "GRAINS "PELLETS "SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									18.2		36.4			45.5
NNE										50.0	50.0			
NE	20.0								20.0	20.0	20.0			20.0
ENE									14.3		14.3			71.4
E	2.9								14.7		26.5			61.6
ESE	3.0								15.2	6.1	6.1			69.7
SE	4.3								14.9	6.4	12.8			63.6
SSE			2.1						12.5	1.8	10.7			76.8
S		1.9	3.7						8.3	2.8	15.7			70.4
SSW			1.6						6.3	1.6	15.7			76.4
SW		1.9	1.9						5.8	1.0	17.3			75.0
WSW		1.8	2.4						6.1	1.2	26.2			65.9
W		.6	1.7						2.3	2.8	23.9			70.5
WNW											41.2			58.8
NW											37.5			62.5
NNW											33.3			66.7
VARIABLE														
CALM									19.9	3.3	11.3			64.5
TOTAL	8	9	31						132	32	219			845
% TOTAL	.6	.7	2.3						10.7	2.6	17.7			68.2

TOTAL NUMBER OF OBSERVATIONS

1,239

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

STATION 93114 SANTA ANA, CALIFORNIA JAN 73 - DEC 77 MONTH JUNE ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									50.0		25.0			25.0
NNE									50.0					50.0
NE									7.7	7.7	23.1			61.5
ENE			22.2						22.2	11.1				66.7
E			12.5						33.3		8.3			58.3
ESE	3.4								24.1		6.9			69.0
SE									21.4		21.4			57.1
SSE	2.6		5.1						15.4		25.6			53.8
S			5.0						17.3	2.2	21.6			56.1
SSW			.9						9.1		18.2			71.8
SW			1.1						3.4	4.6	24.1			66.7
WSW			.6						2.2	.6	32.0			64.0
W		.5	.5						2.4	1.0	39.1			56.5
WNW									10.5		42.1			42.1
NW			10.0						30.0		40.0			30.0
NNW											25.0			75.0
VARIABLE														
CALM	2.3		1.0						24.8	1.0	13.1			57.0
TOTAL	3	1	22						158	21	291			717
% TOTAL	.3	.1	1.8						13.2	1.8	24.3			59.8

TOTAL NUMBER OF OBSERVATIONS 1,200

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

STATION 93114 SANTA ANA, CALIFORNIA JAN 73 - DEC 77 MONTH JULY ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEDG RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									25.0		50.0			25.0
NNE									40.0		20.0			40.0
NE									33.3	16.7				50.0
ENE									33.3	11.1	22.2			33.3
E									27.6	3.4	20.7			48.3
ESE									22.7	9.1	18.2			50.0
SE									26.7		16.7			60.0
SSE									20.6		14.7			64.7
S			1.9						20.0		15.2			64.8
SSW		.9	1.7						5.1	1.7	17.9			74.4
SW									6.9		21.8			71.3
WSW									1.5	1.0	29.6			67.9
W		.4	.4						3.5	2.2	35.4			56.6
WNW									13.3	3.3	40.0			43.3
NW											80.0			20.0
NNW			14.3						14.3		14.3			71.4
VARIABLE														
CALM									20.7	4.9	23.0			52.6
TOTAL		2	.9						150	30	314			744
% TOTAL		.2	.7						12.1	2.4	25.3			60.0

TOTAL NUMBER OF OBSERVATIONS 1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93114 STATION NAME SANTA ANA, CALIFORNIA JAN 73 - DEC 77 YEARS MONTH ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET - SHOWERS (ICE CRYSTALS)	SNOW - GRAINS - PELLETS - SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									20.0		20.0			60.0
NNE									33.3		33.3			33.3
NE									35.3	11.8	5.9			47.1
ENE									20.0	6.7	13.3			60.0
E									37.0		22.2			40.7
ESE	3.1								50.0		15.5			34.6
SE	4.8	4.8							28.6	9.3	14.3			47.6
SSE	4.3								20.3	4.3	25.0			47.7
S			1.2						14.0	4.7	20.9			60.5
SSW									6.5	2.6	36.4			54.5
SW	1.7										34.3			63.8
WSW		.4	.4						.9		34.2			64.6
W		.5							1.8	1.4	32.0			64.9
WNW	4.3										34.5			40.9
NW									9.1		27.3			63.6
NNW		33.3							33.3		33.3			16.7
VARIABLE														
CALM									24.1	5.6	16.3			53.9
TOTAL	6	5	2						167	36	321			710
% TOTAL	.3	.4	.2						13.5	2.9	25.9			57.3

TOTAL NUMBER OF OBSERVATIONS 1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93114 STATION NAME SANTA ANA, CALIFORNIA JAN 73 - DEC 77 MONTH SEPTEMBER ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREZZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	20.0		10.0						30.0		50.0			40.0
NNE										11.1	60.0			44.4
NE										7.1	21.4			50.0
ENE			7.1						21.4	5.9	17.6			41.2
E									35.3	4.3	17.4			39.1
ESE			4.3						39.1	6.5	12.9			58.1
SE			3.2						19.4	5.0	15.0			45.0
SSE								1.1	14.3	3.3	24.2			58.2
S		1.1	1.1						6.5	2.6	18.2			67.5
SSW	6.5		2.6								38.3			61.7
SW											35.8			60.6
WSW			.3						1.0	1.6	37.8			55.8
W		.6	1.7					.6	4.7	1.2	37.9			44.8
WNW			3.4					3.4	10.3	6.9	16.7			58.3
NW			8.3						16.7	8.3	47.1			29.4
NNW	5.9		5.9						17.6					
VARIABLE														
CALM									16.9	4.9	13.6			62.6
TOTAL	8	3	16					3	141	49	300			699
% TOTAL	.7	.3	1.3					.3	11.8	4.1	25.0			58.3

TOTAL NUMBER OF OBSERVATIONS 1,200

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

STATION 03114 SANTA ANA, CALIFORNIA JAN 73 - DEC 77 MONTH OCTOBER ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N			5.9						29.2	5.9	35.3			58.8
NNE			12.5						24.2	8.3	12.5			50.0
NE			3.0						34.0	3.0	12.1			60.6
ENE			8.3						41.5	4.3	8.3			53.2
E	2.4		4.9						28.6	7.3	17.1			31.7
ESE	2.9		2.9						20.7	2.9	2.9			62.9
SE	10.3								25.0	6.9	10.3			51.7
SSE		3.6	3.6						17.6	1.3	21.4			50.0
S	1.5		2.9						8.9	1.3	22.1			57.6
SSW										1.8	42.9			48.2
SW		2.0								4.0	34.0			60.0
WSW			.6						1.2	.6	37.0			61.2
W	.6	1.2							2.5	1.2	33.5			62.1
WNW									3.2		38.7			58.1
NW											10.0			90.0
NNW									27.3		34.5			18.2
VARIABLE														
CALM			1.7						19.8	3.1	22.1			71.9
TOTAL	7	7	21						16.0	3.1	22.1			38.0
% TOTAL	.6	.6	1.7											

TOTAL NUMBER OF OBSERVATIONS 1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

93114

SANTA ANA, CALIFORNIA

JAN 73 - DEC 77

NOVEMBER

ALL

HOURS (L.S.T.)

MONTH

YEARS

STATION NAME

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									7.1		7.1			85.7
NNE									12.5					84.4
NE		3.1							13.0	1.9	9.3			75.9
ENE									6.4	1.3	7.7			84.6
E	1.5	1.5							13.6	4.5	13.6			66.7
ESE	2.6	2.6	2.6						17.9	2.6	10.3			64.1
SE	6.3							3.1	21.9		12.5			62.5
SSE	5.6		2.8						13.9	2.8	2.8			77.8
S	5.7								14.3	5.7	2.9			77.1
SSW	2.9								11.4		20.0			68.6
SW											23.8			76.2
WSW											33.7			62.9
W	.6	1.2							1.8		26.1			70.3
WNW		2.6							2.6		23.1			71.8
NW		8.3							8.3		16.7			66.7
NNW									14.3	7.1	21.4			57.1
VARIABLE														
CALM			.7					.2	15.3	8.0	12.8			63.3
TOTAL	10	11	.5					2	12.8	45	186			824
% TOTAL	.8	.9	.4					.2	10.7	3.8	15.5			68.7

TOTAL NUMBER OF OBSERVATIONS

1,200

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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

STATION 93114 SANTA ANA, CALIFORNIA STATION NAME JAN 73 - DEC 77 YEARS MONTH DECEMBER ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	5.3	5.3							5.3	5.3	5.3			78.9
NNE		3.7							7.4	11.1	18.5			59.3
NE	2.9	2.9							13.0	13.0	5.8			63.8
ENE		1.0	1.0						12.6	8.7	6.8			70.9
E	1.0	4.1	2.0					1.0	11.2	6.1	8.2		1.0	69.4
ESE	8.1	2.7							16.2	5.4	5.4			62.2
SE	4.2								25.0		10.4			62.5
SSE	10.8	13.5							21.6		18.9			43.2
S	3.4	6.9							13.8	3.4	6.9			69.0
SSW	2.7								5.4		27.0			67.6
SW		2.9							5.9		29.4			64.7
WSW	1.5	1.5							1.5		47.8			47.8
W	.9	.9							1.8		29.5			63.4
WNW											32.0			68.0
NW	14.3										42.9			42.9
NNW	7.1	7.1							7.1		7.1			71.4
VARIABLE														
CALM														
TOTAL	23	27	7					1	150	68	192		1	786
% TOTAL	1.9	2.2	.6					.1	12.1	5.5	15.5		.1	63.4

TOTAL NUMBER OF OBSERVATIONS 1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

93114 STATION NAME JAN 73 - DEC 77 YEARS ALL MONTH ALL HOURS 1-23.7.7

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	3.8	1.9	1.3						9.0	3.8	14.1			67.9
NNE	1.0	2.0	2.0					.5	11.3	5.4	8.9			70.4
NE	1.4	.7	.7						9.9	4.9	7.3		.2	76.1
ENE	1.0	.4	2.1						13.6	4.9	7.0			73.8
E	2.2	2.4	1.2					.2	17.2	4.3	10.3		.2	64.6
ESE	5.0	2.1	1.4					.2	20.0	3.6	8.3			62.0
SE	5.9	2.5	.8					.2	15.1	2.9	9.6			65.7
SSE	3.8	4.9	1.9						16.2	2.4	12.0			63.0
S	2.4	1.9	2.2					.1	12.2	2.6	13.7			66.0
SSW	1.4	.8	1.2					.1	5.5	1.4	20.1			70.8
SW	.6	1.3	.4						3.2	1.4	23.5			70.3
WSW	.2	.7	.5						1.8	.7	29.7			66.6
W	.4	.9	.5					.2	2.5	1.1	28.5			66.4
WNW	2.2	1.9	.6					.3	5.4	1.3	29.5			60.9
NW	1.6	.8	1.6						6.6	1.6	24.6			65.6
NNW	2.9	2.9	1.9						14.3	1.0	27.6			53.3
VARIABLE														
CALM														
TOTAL	185	168	140					11	1499	496	2559		2	9757
% TOTAL	1.3	1.2	1.0					.1	10.3	3.4	17.5		.0	66.8

TOTAL NUMBER OF OBSERVATIONS 14,607

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION

SNOWFALL*

SNOW DEPTH

DERIVED FROM DAILY OBSERVATIONS

DERIVED FROM DAILY OBSERVATIONS

DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations	From beginning of record thru 1945	Snow depth at 0800 LST
	Jan 46-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT
U. S. Navy and Weather Bureau Stations	From beginning of record thru Jun 52	Snow depth at 0030 GCT
	Jul 52-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT

* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956,

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
PRECIPITATION
(FROM DAILY OBSERVATIONS)

93114 STATION SANTA ANA, CALIFORNIA 65-47, 53, 63, YEARS 67-77

PRECIP.	NONE	TRACE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	50.5-100.0	100.1-200.0	OVER 200.0	PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
																			MEAN	GREATEST	LEAST
JAN	76.3	6.2	1.9	3.0	2.2	3.0	3.0	3.0	2.4	1.3							17.5	372	1.73	6.61	.00
FEB	74.9	7.1	1.9	1.9	1.9	5.1	3.5	2.6	1.0								18.0	311	1.64	7.23	.01
MAR	74.2	7.2	1.0	4.7	2.5	4.0	3.5	3.0									18.6	403	1.44	2.97	TRACE
APR	80.0	6.7	1.5	3.3	2.1	3.6	1.5	.8	.5								13.3	390	.76	4.05	TRACE
MAY	77.4	15.7	.9	3.7	.4	1.3	.4		.2								6.9	465	.28	2.59	TRACE
JUN	78.9	17.1	.7	2.9	.2		.2										4.0	450	.06	.46	TRACE
JUL	93.8	4.7	.2	.9	.2	.2	.2										1.3	465	.02	.18	.00
AUG	93.5	4.7		.2	.2	.2	.2	.5	.2								1.7	403	.21	1.74	.00
SEP	84.6	10.3	.5	1.8	1.3	.8	.3		.5								5.1	390	.35	1.95	TRACE
OCT	80.6	12.7	1.2	1.5	1.0	2.2	.7										6.7	403	.23	.64	TRACE
NOV	80.6	6.4	1.7	3.1	1.1	1.4	3.1	1.4	1.4								13.1	360	1.19	4.27	.05
DEC	75.8	6.5	.8	3.2	2.7	3.8	2.7	3.8	.8								17.7	372	1.86	3.80	.26
ANNUAL	80.9	8.8	1.0	2.5	1.3	2.1	1.7	1.2	.5								10.3	4784	9.77		

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOWFALL
(FROM DAILY OBSERVATIONS)

93114 STATION SANTA ANA, CALIFORNIA STATION NAME 45-47, 53, 63, 67-77 YEARS

5722 Daily Amounts Jan. 1969

AMOUNTS (INCHES)																	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP.	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00	PERCENT OF DAYS WITH MEASUR- ABLE AMTS	372	TRACE		.0	.0	
																				MEAN
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4							
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120							
JAN	99.7	.3																		
FEB	100.0																			
MAR	100.0																			
APR	100.0																			
MAY	100.0																			
JUN	100.0																			
JUL	100.0																			
AUG	100.0																			
SEP	100.0																			
OCT	100.0																			
NOV	100.0																			
DEC	100.0																			
ANNUAL	100.0	.0																		

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOW DEPTH
(FROM DAILY OBSERVATIONS)

93114 STATION SANTA ANA, CALIFORNIA 65-47, 53, 63, YEARS 67-77

5722 Daily Amounts Jan. 1969

AMOUNTS (INCHES)																	PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP.	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00		MEAN	GREATEST			LEAST		
													OVER 50.4	OVER 120							
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	61-120	OVER 120							
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120								
JAN	100.0														372						
FEB	100.0														283						
MAR	100.0														341						
APR	100.0														330						
MAY	100.0														372						
JUN	100.0														360						
JUL	100.0														434						
AUG	100.0														372						
SEP	100.0														330						
OCT	100.0														403						
NOV	100.0														300						
DEC	100.0														310						
ANNUAL	100.0														4207						

5723 Example Values Jan 1969

PRECIPITATION

FROM DAILY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

STATION

STATION NAME

45-47, 52-53, 63, 67-77

YEARS

24 HOUR AMOUNTS IN INCHES

[illegible]

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NAVWEASERVCOM

SNOWFALL

FROM DAILY OBSERVATIONS)

67-77

45-47, 52-53, 63,

YEARS

SANTA ANA, CALIFORNIA

STATION NAME

03114

STATION

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
51													
52													
53					.0								
63					.0	.0	.0	.0	.0	.0	.0	.0	
67			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
74	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MEAN	TRACE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S. D.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TOTAL OBS.	372	311	403	360	465	420	434	403	360	403	330	341	4602

NAVWEASERVCOM

FROM DAILY OBSERVATIONS)

45-47, 52-53, 63, 67-77

SANTA ANA, CALIFORNIA

STATION
47166

YEARS

24 HOUR AMOUNTS IN INCHES
/BASED ON LESS THAN FULL MONTHS/

[illegible]

EXTREME VALUES

SNOW DEPTH

(FROM DAILY OBSERVATIONS)

67-77

45-47, 52-53, 63,

SANTA ANA, CALIFORNIA

93114

YEARS

STATION NAME

STATION

DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45							0			0			
46	0									0			
47	0			0			0						
51													
52													
53					0								
63							0	0	0	0		0	
67				0	0		0	0	0	0	0	0	
69	0	0	0	0	0	0	0	0	0	0	0	0	
70	0	0	0	0	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
S. D.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TOTAL OBS.	372	283	341	330	372	360	434	372	330	403	300	310	4207

NAVWEASERVCOM

FROM DAILY OBSERVATIONS)

45-47, 52-53, 63, 67-77

SANTA ANA, CALIFORNIA

STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE
STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE

STATION	DATE	TIME	WIND DIRECTION	SPEED	SEA STATE	CLOUDS	WEATHER	REMARKS
01	1968-07-15	0000	090	10	3	BKN	R	Light rain.
02	1968-07-15	0100	090	10	3	BKN	R	Light rain.
03	1968-07-15	0200	090	10	3	BKN	R	Light rain.
04	1968-07-15	0300	090	10	3	BKN	R	Light rain.
05	1968-07-15	0400	090	10	3	BKN	R	Light rain.
06	1968-07-15	0500	090	10	3	BKN	R	Light rain.
07	1968-07-15	0600	090	10	3	BKN	R	Light rain.
08	1968-07-15	0700	090	10	3	BKN	R	Light rain.
09	1968-07-15	0800	090	10	3	BKN	R	Light rain.
10	1968-07-15	0900	090	10	3	BKN	R	Light rain.
11	1968-07-15	1000	090	10	3	BKN	R	Light rain.
12	1968-07-15	1100	090	10	3	BKN	R	Light rain.
13	1968-07-15	1200	090	10	3	BKN	R	Light rain.
14	1968-07-15	1300	090	10	3	BKN	R	Light rain.
15	1968-07-15	1400	090	10	3	BKN	R	Light rain.
16	1968-07-15	1500	090	10	3	BKN	R	Light rain.
17	1968-07-15	1600	090	10	3	BKN	R	Light rain.
18	1968-07-15	1700	090	10	3	BKN	R	Light rain.
19	1968-07-15	1800	090	10	3	BKN	R	Light rain.
20	1968-07-15	1900	090	10	3	BKN	R	Light rain.
21	1968-07-15	2000	090	10	3	BKN	R	Light rain.
22	1968-07-15	2100	090	10	3	BKN	R	Light rain.
23	1968-07-15	2200	090	10	3	BKN	R	Light rain.
24	1968-07-15	2300	090	10	3	BKN	R	Light rain.

YEARS

DAILY SNOW DEPTH IN INCHES
/BASED ON LESS THAN FULL MONTHS/

[illegible]

NAVWEASERVCOM

5723 Ex~~ame~~ Values Jan 1969

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

1946-1947 1952-1952 9999-9999
YEARS

DAILY EXTREME AMOUNTS

JANUARY
MONTH

FEBRUARY
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.10	3	1974			
2	0.87	22	1971			
3	0.48	12	1977			
4	0.95	24	1974	T	T	1974
5	0.28	7	1977			
6	1.09	28	1977			
7	1.12	28	1974			
8	0.50	13	1974			
9	0.88	22	1973			
10	T	T	1970*			
11	0.36	9	1970			
12	0.10	3	1971			
13	0.60	15	1969			
14	0.56	14	1969			
15	0.02	1	1970			
16	1.09	28	1973			
17	0.16	4	1974			
18	0.70	18	1973			
19	0.28	7	1969			
20	0.43	11	1969			
21	0.48	12	1969			
22	0.14	4	1969			
23	0.08	2	1969			
24	1.27	32	1969			
25	1.58	40	1969			
26	0.28	7	1969			
27	0.36	9	1968			
28	0.25	6	1969			
29	T	T	1946			
30	0.36	9	1975			
31	0.16	4	1968			
Monthly	1.58	40	1969	T	T	1974

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2	0.01		1973			
3	0.56	14	1975			
4	0.17	4	1975			
5	0.23	6	1976			
6	0.79	20	1973			
7	0.56	14	1976			
8	0.54	14	1976			
9	0.62	16	1976			
10	1.17	30	1970			
11	0.97	25	1973			
12	0.43	11	1973			
13	0.45	11	1968			
14	0.18	5	1973			
15	0.10	3	1969			
16	0.13	3	1971			
17	0.17	4	1971			
18	0.29	7	1969			
19	0.17	4	1969			
20	0.01		1973*			
21	0.18	5	1969			
22	0.36	9	1969			
23	2.16	55	1969			
24	1.72	44	1969			
25	1.12	28	1969			
26	T	T	1969			
27	0.31	8	1973			
28	0.30	8	1974			
29	T	T	1976			
30						
31						
Monthly	2.16	55	1969			

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

MARCH
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.71	18	1976			
2	0.72	18	1974			
3	0.16	4	1974			
4	1.00	25	1970			
5	0.28	7	1975			
6	0.33	8	1973			
7	0.94	24	1974			
8	0.91	23	1975			
9	0.05	1	1976			
10	0.59	15	1975			
11	0.38	10	1973			
12	0.13	3	1967			
13	0.39	10	1975			
14	0.04	1	1967			
15	0.31	8	1945			
16	0.17	4	1977			
17	0.62	16	1945			
18	T	T	1972*			
19	T	T	1974			
20	0.62	16	1973			
21	0.39	10	1969			
22	0.32	8	1975			
23	0.49	12	1945			
24	0.06	2	1977			
25	0.41	10	1977			
26	0.11	3	1945			
27	0.16	4	1974			
28	0.07	2	1947			
29	T	T	1971*			
30	0.02	1	1974			
31	0.70	18	1967			
Monthly	1.00	25	1970			

DAILY EXTREME AMOUNTS

1945-1947 1952-1952 9999-9999
YEARS

APRIL
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.74	19	1967			
2	0.28	7	1946			
3	0.26	7	1976			
4	0.22	6	1976			
5	0.35	9	1969			
6	0.11	3	1975			
7	0.10	3	1967			
8	1.28	33	1975			
9	0.10	3	1969			
10	0.06	2	1969			
11	0.37	9	1967			
12	0.51	13	1976			
13	0.12	3	1976			
14	0.37	9	1971			
15	0.12	3	1975			
16	0.23	6	1975			
17	0.08	2	1975			
18	0.66	17	1967			
19	1.31	33	1967			
20	0.03	1	1967			
21	0.27	7	1967			
22	0.15	4	1967			
23	T	T	1947			
24	0.17	4	1967			
25	0.14	4	1975			
26	T	T	1947			
27	T	T	1973*			
28	0.17	4	1967			
29	0.03	1	1973			
30	0.01		1973			
31						
Monthly	1.31	33	1967			

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

93114 STATION
SANTA ANA, CALIFORNIA
STATION NAME

MAY MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	T	T	1971*			
2						
3	T	T	1971*			
4	0.01		1967			
5	0.14	4	1974			
6	0.06	2	1971			
7	0.05	1	1976			
8	1.97	50	1977			
9	0.30	8	1977			
10	0.17	4	1947			
11	T	T	1973*			
12	0.12	3	1968			
13	T	T	1973*			
14	0.05	1	1973			
15	0.01		1953			
16	T	T	1977*			
17	T	T	1973*			
18	T	T	1973*			
19	0.03	1	1972			
20	0.12	3	1975			
21	0.04	1	1968			
22	T	T	1947			
23	0.02	1	1977*			
24	0.26	7	1977			
25	T	T	1973*			
26	T	T	1971*			
27	0.12	3	1971			
28	0.23	6	1971			
29	T	T	1971*			
30	0.02	1	1947			
31	0.02	1	1973			
Monthly	1.97	50	1977			

DAILY EXTREME AMOUNTS

1945-1947 1952-1953 9999-9999
YEARS

JUNE MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.01		1973			
2	0.02	1	1947			
3	T	T	1976*			
4	T	T	1973*			
5	0.03	1	1972			
6	0.03	1	1972			
7	0.07	2	1974			
8	0.03	1	1972			
9	0.05	1	1971			
10	0.45	11	1976			
11	0.04	1	1963			
12	T	T	1975*			
13	0.03	1	1970			
14	T	T	1974*			
15	T	T	1969			
16	T	T	1973*			
17	T	T	1963			
18	T	T	1973*			
19	T	T	1975			
20	0.03	1	1972			
21	T	T	1963*			
22	0.01		1972			
23	T	T	1972*			
24	T	T	1975*			
25	T	T	1977*			
26	T	T	1968			
27	T	T	1947			
28	T	T	1971			
29						
30	T	T	1973			
31						
Monthly	0.45	11	1976			

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

1945-1947 1952-1953 9999-9999
YEARS

DAILY EXTREME AMOUNTS

5724 DAILY AMOUNTS MAR 1978

JULY
MONTH

AUGUST
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
4	T		1977			
5						
6	0.02		1969			
7	0.03		1968			
8	T		1975			
9						
10	T		1974			
11	0.04		1969			
12						
13	T		1973			
14	T		1974*			
15	0.18	5	1977			
16	T		1977			
17						
18	T		1952			
19	T		1974			
20						
21						
22	T		1976*			
23						
24	T		1973			
25	T		1976			
26						
27	0.01		1968			
28	0.06	2	1968			
29	0.02	1	1968			
30						
31						
Monthly	0.18	5	1977			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
4	T		1973			
5	T		1973			
6						
7	0.11	3	1963			
8	T		1974			
9						
10						
11	T		1975*			
12	0.54	14	1972			
13	T		1973			
14						
15	T		1976			
16	0.52	13	1977			
17						
18	0.30	8	1945			
19						
20	T		1973			
21	0.02	1	1945			
22						
23						
24	T		1975			
25						
26	T		1972			
27	T		1972			
28						
29						
30						
31						
Monthly	0.54	14	1972			

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

SEPTEMBER
MONTH

1945-1947 1952-1953 9999-9999
YEARS

OCTOBER
MONTH

DAILY EXTREME AMOUNTS

DAY	PRECIPITATION GREATEST				SNOWFALL GREATEST		
	INCHES	MM	DATE		INCHES	MM	DATE
1	0.20	5	1967				
2	T	T	1973*				
3	0.04	1	1976				
4	0.45	11	1963				
5	0.06	2	1976				
6	T	T	1972*				
7	0.02	1	1976				
8	0.06	2	1945				
9	0.07	2	1976				
10	1.62	41	1976				
11	0.08	2	1976				
12	T	T	1970*				
13	T	T	1973*				
14	0.01		1976				
15	0.04	1	1976				
16	0.01		1963				
17	1.25	32	1963				
18	0.24	6	1963				
19	T	T	1967*				
20	T	T	1968*				
21							
22	T	T	1973				
23							
24	T	T	1976*				
25	T	T	1977				
26	T	T	1977*				
27	0.02	1	1967				
28	0.25	6	1967				
29							
30							
31							
Monthly	1.62	41	1976				

DAY	PRECIPITATION GREATEST				SNOWFALL GREATEST		
	INCHES	MM	DATE		INCHES	MM	DATE
1	0.18	5	1946				
2	T	T	1976				
3	0.02	1	1968				
4							
5							
6	0.08	2	1975				
7	0.12	3	1975				
8	0.03	1	1973				
9	0.01		1968				
10	T	T	1976				
11	0.07	2	1975				
12							
13	T	T	1977*				
14	T	T	1977*				
15	T	T	1977*				
16	0.29	7	1963				
17	T	T	1977*				
18	0.35	9	1963				
19	0.03	1	1972				
20	0.03	1	1972				
21	T	T	1976*				
22	T	T	1968				
23	T	T	1973*				
24	T	T	1977*				
25							
26	0.03	1	1972				
27	0.18	5	1946				
28	0.16	4	1974				
29	0.25	6	1945				
30	0.28	7	1968				
31	0.01		1974				
Monthly	0.35	9	1963				

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

NOVEMBER
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.03	1	1974			
2						
3	T	T	1963			
4	T	T	1975			
5	T	T	1977			
6	0.19	5	1963			
7	0.16	4	1946			
8	0.41	10	1946			
9						
10	0.01		1972			
11	0.42	11	1976			
12	1.02	26	1946			
13	0.64	16	1946			
14	1.28	33	1972			
15	0.63	16	1963			
16	1.01	26	1972			
17	0.32	8	1973			
18	0.40	10	1973			
19	0.58	15	1967			
20	2.27	58	1963			
21	1.10	28	1967			
22	0.34	9	1973			
23	0.55	14	1946			
24	T	T	1973*			
25	0.14	4	1970			
26	0.05	1	1970			
27	0.07	2	1975			
28	0.85	22	1970			
29	0.80	20	1970			
30	0.40	10	1967			
31						
Monthly	2.27	58	1963			

DAILY EXTREME AMOUNTS

1945-1947 1951-1953 9999-9999
YEARS

DECEMBER
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.08	2	1973			
2	0.25	6	1971			
3	0.16	4	1971			
4	1.70	43	1974			
5	0.01		1946			
6	0.16	4	1972			
7	0.24	6	1972			
8	0.42	11	1972			
9	0.06	2	1970			
10						
11	0.15	4	1968			
12	0.06	2	1975			
13	T	T	1973*			
14	T	T	1973*			
15	T	T	1968			
16	0.09	2	1970			
17	0.18	5	1977			
18	0.69	18	1967			
19	0.82	21	1970			
20	0.21	5	1975			
21	0.61	15	1970			
22	2.32	59	1945			
23	0.08	2	1971			
24	0.85	22	1971			
25	0.93	24	1946			
26	0.64	16	1977			
27	0.78	20	1971			
28	1.44	37	1974			
29	0.57	14	1974			
30	0.48	12	1976			
31	0.43	11	1976			
Monthly	2.32	59	1945			

* ALSO ON EARLIER YEARS
T - TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET--SMOS

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided.

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from 3-hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

- a. Three tables are prepared for all surface winds included, and for all years combined as follows:

- (1) Annual - all hours combined
- (2) By month - all hours combined
- (3) By month - by standard 3-hour groups

- b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

2

SANTA ANA, CALIFORNIA

45-47, 52-53, 63, 67-77

STATION

STATION NAME

YEARS

DAILY PEAK GUSTS IN KNOTS

[illegible]

NAVWEASERVCOM

SURFACE WINDS
FROM DAILY OBSERVATIONS)

45-47, 52-53, 63, 67-77

SANTA ANA, CALIFORNIA

YEARS

DAILY PEAK GUSTS IN KNOTS
/BASED ON LESS THAN 90% OBSERVATIONS FOR MONTH/[illegible]

NAVWEASERVCOM

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

STATION NAME

73-77

YEARS

JAN

MONTH

ALL WEATHER

CLASS

01

HOURS (L.E.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.3										2.6	3.8
NNE	1.3	1.3			.6							3.2	6.2
NE	6.4	1.3	.6	.6	.6	.6	.6					12.9	6.5
ENE	5.8	1.9				.6						8.4	4.5
E	5.8	.6										6.5	2.5
ESE	1.3	.6										1.9	3.0
SE		1.3	.6									1.9	5.7
SSE	.6	3.2	1.3									5.2	5.4
S	1.9	.6		.6								3.2	5.0
SSW	.6	.6										1.3	4.0
SW		.6										.6	5.0
WSW													
W	1.9	.6										2.6	3.3
WNW													
NW													
NNW	1.3											1.3	3.0
VARBL													
CALM												48.4	
	30.3	14.2	2.6	1.3	1.3	1.3	.6					100.0	2.5

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

JAN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

04

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

0000

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	3.9	1.3		.6								5.8	3.8
NNE	3.9	1.3	.6									6.5	3.8
NE	5.2	3.2		.6	1.3							10.3	5.7
ENE	3.2	.6	.6				.6					5.2	6.1
E	4.5	3.2										7.7	2.8
ESE	.6	1.3										2.6	3.8
SE	1.3	2.6	1.3									5.2	5.1
SSE	1.3	1.3										3.2	3.6
S				.6								.6	12.0
SSW													
SW													
WSW													
W	1.3											1.3	1.5
WNW													
NW	.6	.6										1.3	2.5
NNW	.6											.6	2.0
VARBL													
CALM												49.7	
	27.1	16.6	2.6	1.9	1.3		.6					100.0	2.2

TOTAL NUMBER OF OBSERVATIONS

155

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

JAN

STATION

STATION NAME

YEARS

ALL WEATHER

MONTH

07

HOURS (L.S.T.)

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.3	.0										1.9	3.0
NNE	4.5	1.3	.0									6.5	3.5
NE	6.3	.6		.6	1.3	.6						9.7	6.4
ENE	5.2	.6	.6	.6								7.1	4.1
E	5.2	2.6	.6									8.4	3.5
ESE	2.6	.6										3.2	2.6
SE	1.3	2.6	1.3	.6								5.8	5.8
SSE		.0										.6	6.0
S		.0										.6	6.0
SSW													
SW													
WSW	1.3											1.3	3.0
W	.6											.6	3.0
WNW	.6	1.3	.6									2.6	5.0
NW		.6	.6									1.3	6.0
NNW													
VARBL													
CALM												50.3	
	29.0	12.3	4.5	1.9	1.3	.6						100.0	2.2

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

JAN
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9		.6									2.6	3.3
NNE	.6	.6		.6								1.9	6.3
NE	.6	.6	.6	1.3		1.3						4.5	12.7
ENE	1.3	.6		.6		.6						3.2	9.4
E	3.2	.6	.6	1.9								6.5	5.7
ESE	1.3	.6	2.6									4.5	5.9
SE	4.5	.6	.6									3.8	2.9
SSE	.6	1.9	2.6	.6	.6							6.5	8.1
S	.6	1.3	1.3	.6								3.9	6.8
SSW	.6	.6										1.3	3.5
SW													
WSW	.6	1.3										1.9	4.0
W	4.5	4.5			.6							9.7	4.9
WNW	2.6	1.9										4.5	3.7
NW		.6	.6	.6								1.9	8.0
NNW	1.9											1.9	2.0
VARBL													
CALM												39.4	
	25.2	16.1	9.7	6.5	1.3	1.9						100.0	3.6

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

JAN
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3		.6								2.6	5.5
NNE	.6		.6	.6								1.9	7.7
NE		.6	.6	1.9	1.9							5.2	13.1
ENE	1.3	.6			.6							2.6	7.3
E		1.3	.6									1.9	6.0
ESE		1.3		.6								1.9	7.0
SE			.6									.6	8.0
SSE	.6	1.3	1.3		.6							3.9	8.3
S		1.9	2.6									4.5	6.6
SSW	3.2	1.9	1.9	.6								7.7	5.6
SW	.6	3.9	1.9									6.5	5.5
WSW	1.9	9.6	2.6	.6	.6							14.8	5.7
W	7.1	8.4	5.8	1.9								23.2	5.8
WNW	2.6	5.2	2.6									10.3	4.9
NW	.6	1.3	1.3									3.2	6.2
NNW		.6										.6	4.0
VARBL													
CALM												8.4	
	19.4	38.7	22.6	7.1	3.9							100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA

73-77

YEARS

JAN

MORTH

ALL WEATHER

CLASS

16

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6										.6	4.0
NNE				.6								.6	12.0
NE			1.3	1.3		.6	.6					3.9	17.0
ENE	1.3		.6		.6							2.6	8.0
E	.6											.6	2.0
ESE				.6								.6	14.0
SE		.6	1.3									1.9	7.0
SSE			.6		.6							1.3	12.5
S		1.9	2.6									4.5	7.1
SSW	.6	6.3	3.6	.6								13.3	6.8
SW	1.9	3.2	7.1									12.3	6.7
WSW	3.9	12.9	9.7									26.3	5.7
W	1.9	11.0	10.3	1.3	.6							23.2	6.9
WNW	.6	.6	.6									1.9	3.3
NW			.6									.6	10.0
NNW		.6	.6									1.3	5.5
VARBL													
CALM												1.9	
	11.0	35.1	41.3	4.5	1.9	.6	.6					100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

155

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

JAN
MONTH

ALL WEATHER
CLASS

19
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE		1.3										1.3	5.0
NE	1.3	1.9		1.9								3.2	7.4
ENE	4.5	2.6										7.1	3.4
E	6.3	1.9	.6	.6								9.7	3.9
ESE	3.2	2.6	.6									6.5	3.9
SE	3.2	1.9	.6									3.8	3.8
SSE	.6	3.2		.6								4.5	5.6
S	2.6	.6		.6								3.9	4.3
SSW	.6		1.3									1.9	7.0
SW	1.9											1.9	1.7
WSW	1.3	1.9			.6							3.9	6.3
W	2.6	.6	.6	1.3								5.2	6.1
WNW	.6	.6										1.3	3.0
NW	.6		.6									1.3	6.3
NNW	1.3	.6			.6							2.6	6.8
VARBL													
CALM												38.1	
	31.0	20.0	4.5	5.2	1.3							100.0	3.0

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

JAN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

22

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3										1.9	4.0
NNE	1.9	.6	1.3									3.9	4.8
NE	9.0	1.9			.6	1.3						12.9	5.2
ENE	9.0	1.3		.6								11.0	3.2
E	5.2	.6										5.8	2.6
ESE	2.6	.6										3.2	3.2
SE	2.6	.6	1.3									4.3	4.1
SSE	1.3	1.9										3.2	4.0
S	1.9	.6	.6									2.6	4.0
SSW		.6										.6	4.0
SW		.6										.6	6.0
WSW													
W	2.6											2.6	2.3
WNW	1.3	.6										1.9	3.0
NW													
NNW	.6											.6	2.0
VARBL													
CALM												44.3	
	38.7	11.0	3.2	.6	.6	1.3						100.0	2.1

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
03114

STATION NAME
SANTA ANA, CALIFORNIA

YEARS
73-77

MONTH
JAN

CLASS
ALL WEATHER

HOURS (L.S.T.)
ALL

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.8	.1	.2								2.3	3.9
NNE	1.6	.9	.4	.2	.1							3.2	4.9
NE	3.9	1.3	.4	1.0	.7	.6	.2					8.1	7.8
ENE	4.0	1.0	.2	.2	.2	.2	.1					5.9	4.8
E	3.9	1.4	.3	.3								5.9	3.6
ESE	1.5	1.0	.4	.2								3.1	4.4
SE	1.6	1.3	1.0	.1								4.0	4.7
SSE	.7	1.7	.7	.2	.2							3.3	6.4
S	.9	.9	.9	.2								2.9	5.8
SSW	.7	1.3	1.1	.2								3.4	6.2
SW	.6	1.0	1.1									2.7	5.8
WSW	1.1	3.1	1.3	.1	.2							6.0	5.6
W	2.8	3.1	2.1	.6	.2							8.8	5.8
WNW	1.0	1.3	.3									2.8	4.5
NW	.2	.4	.3	.1								1.2	6.3
NNW	.7	.2	.1		.1							1.1	4.1
VARB												35.1	
CALM												100.0	3.6
	26.5	20.9	11.4	3.6	1.6	.7	.2						

TOTAL NUMBER OF OBSERVATIONS

1240

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

1888

93114

SANTA ANA, CALIFORNIA

73-77

FEB

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

01

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

8888

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	.7	.7									2.1	4.7
NNE	5.0	.7	.7									6.4	3.1
NE	2.1	2.1										4.3	3.3
ENE	6.4	4.3	.7	1.4								12.8	4.3
E	5.0	1.4										6.4	2.6
ESE	1.4	1.4	1.4									4.3	4.8
SE		2.1	1.4									4.3	6.3
SSE		2.1										2.8	5.3
S	2.1			.7								2.8	5.8
SSW		.7										.7	5.0
SW	2.1											2.1	2.0
WSW		.7	.7									1.4	6.3
W	.7	1.4										2.1	4.3
WNW			.7									.7	9.0
NW													
NNW													
VARBL													
CALM												46.8	
	25.5	19.1	6.4	2.1								100.0	2.3

TOTAL NUMBER OF OBSERVATIONS

141

8888

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

ALL WEATHER
CLASS

YEARS

FEB

MONTH

04

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.7										.7	6.0
NNE	1.4	2.8										4.3	4.0
NE	7.8	.7		.7								9.2	3.3
ENE	9.3	4.3	.7	.7		.7						16.3	4.8
E	5.7	5.0										10.6	3.3
ESE	1.4	.7	.7									2.8	4.3
SE	1.4	3.5	1.4									6.4	5.2
SSE	.7	2.1		.7								3.5	6.2
S	.7						.7					1.4	15.3
SSW			.7									.7	9.0
SW												.7	4.0
WSW		.7										.7	8.0
W			.7									.7	5.0
WNW		.7											
NW													
NNW													
VARBL													
CALM												41.8	
	29.1	21.3	4.3	2.1		.7	.7					100.0	2.7

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

FEB
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.5											3.5	2.0
NNE	4.3											4.3	1.5
NE	4.3	2.1										6.4	2.6
ENE	7.1	4.3		1.4	.7	.7						14.2	6.2
E	3.5	5.0										8.5	4.0
ESE	5.7	2.8	.7	.7								9.9	4.1
SE	.7	1.4	1.4									3.5	3.4
SSE		.7	.7									1.4	6.0
S		2.1	.7									2.8	5.8
SSW	.7	.7										1.4	3.0
SW												.7	2.0
WSW	.7												
W													
WNW													
NW													
NNW													
VARBL													
CALM												43.3	
	30.5	19.1	5.5	2.1	.7	.7						100.0	2.4

TOTAL NUMBER OF OBSERVATIONS

141

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

FEB
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7											.7	2.0
NNE	.7	.7										1.4	4.0
NE				2.1	.7		.7					3.3	17.8
ENE	1.4	.7		.7								2.8	5.8
E	.7		.7			.7						2.1	12.3
ESE	.7	3.3	.7	1.4								6.4	6.3
SE	1.4	2.8	3.3									7.8	6.4
SSE	1.4	1.4	.7	1.4								3.0	6.9
S	2.8	3.7	2.1									10.6	3.0
SSW	2.8	1.4	.7									3.0	4.3
SW	.7	1.4	.7									2.1	3.7
WSW	.7	4.3	.7									3.7	4.6
W	9.2	3.0	.7									14.9	3.1
WNW	2.1	3.3										3.7	3.1
NW	.7											.7	2.0
NNW	.7	.7										1.4	2.5
VARBL												24.1	
CALM												100.0	4.1
	27.0	31.2	9.9	5.7	.7	.7	.7						

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

FEB
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.7	.7									1.4	7.0
NNE			.7	1.4								2.1	12.0
NE			1.4		.7							2.1	12.0
ENE			1.4	.7	1.4							3.5	13.2
E	.7	.7	1.4									2.8	6.5
ESE													
SE	1.4		1.4	.7								3.5	6.6
SSE		.7	1.4	.7								2.8	9.5
S		1.4	2.8	2.1								6.4	10.4
SSW	1.4	2.8	2.8	1.4								8.5	6.8
SW		1.4	4.3	.7								6.4	8.0
WSW	2.8	9.2	9.9	.7	.7							23.4	6.4
W	2.1	14.9	7.8	2.1								27.0	6.4
WNW		1.4	.7	.7								2.8	7.8
NW	.7											.7	2.0
NNW	.7	.7										1.4	3.5
VARBL													
CALM												5.0	
	9.9	34.0	36.9	11.3	2.8							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

141

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

FEB

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

16

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE	.7		1.4		.7							2.8	9.8
ENE		.7	1.4	1.4								3.5	10.4
E	.7			.7								1.4	6.0
ESE				.7								.7	12.0
SE		.7		.7								1.4	8.5
SSE		.7		.7								1.4	9.0
S	.7	.7	3.5	1.4								6.4	8.2
SSW	.7	2.8	5.7									9.2	7.0
SW	.7	4.3	4.3	.7								9.9	6.9
WSW	2.1	16.3	16.3	2.8								37.6	7.0
W	.7	4.3	10.6	5.7								21.3	8.7
WNW		1.4	.7									2.1	5.0
NW													
NNW													
VARBL													
CALM												2.1	
	6.4	31.9	44.0	14.9	.7							100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

141

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93114

SANTA ANA, CALIFORNIA

73-77

FEB

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

19

CLASS

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4											1.4	2.0
NNE													
NE													
ENE	.7	2.1		.7								3.5	3.6
E	5.0	2.1	1.4									8.5	3.6
ESE		1.4	.7	.7								2.8	7.8
SE	2.0	1.4										4.3	3.5
SSE	2.1	4.3	.7									7.1	4.2
S	6.5	5.7										14.2	3.3
SSW	7.1	5.0										12.1	3.5
SW	2.1	1.4	.7									4.3	3.8
WSW	1.4	5.0	.7									7.1	4.7
W	2.1	3.5		.7								6.4	5.3
WNW													
NW	.7											.7	1.0
NNW	.7											.7	2.0
VARBL													
CALM												27.0	
	34.8	31.9	4.3	2.1								100.0	2.9

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

FEB
MONTH

ALL WEATHER
CLASS

22
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7											.7	2.0
NNE	1.6	.7										2.1	2.0
NE	2.8	1.6			.7							3.0	4.9
ENE	4.3	1.6										5.7	2.8
E	3.3	7.1	1.6									12.1	4.1
ESE	.7	3.3		1.6								5.7	3.9
SE	1.6	.7	.7									2.8	4.3
SSE	1.6	.7	1.6									3.3	6.0
S	2.8	1.6	.7	.7								5.7	3.0
SSW	1.6	1.6										2.8	3.0
SW		.7										.7	4.0
WSW	.7		.7									1.6	3.0
W	.7											.7	3.0
WNW	.7	1.6										2.1	4.0
NW		.7										.7	3.0
NNW	.7											.7	2.0
VARBL													
CALM												47.5	
	23.4	21.3	3.0	2.1	.7							100.0	2.2

TOTAL NUMBER OF OBSERVATIONS

141

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

FEB
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.3	.2									1.3	3.5
NNE	1.6	.6	.2	.2								2.6	3.8
NE	2.2	.8	.4	.4	.4		.1					4.2	6.1
ENE	3.7	2.2	.5	.9	.3	.2						7.8	5.8
E	3.1	2.7	.6	.1		.1						6.6	4.1
ESE	1.2	1.7	.5	.6								4.1	3.5
SE	1.2	1.7	1.2	.2								4.3	5.7
SSE	.7	1.7	.6	.4								3.3	6.2
S	2.2	2.1	1.2	.6			.1					6.3	6.0
SSW	1.8	1.9	1.2	.2								5.1	5.2
SW	.7	1.2	1.2	.2								3.2	5.9
WSW	1.1	4.5	3.6	.4	.1							9.8	6.3
W	2.0	3.6	2.5	1.1								9.1	6.2
WNW	.4	1.1	.3	.1								1.8	4.9
NW	.3	.1										.4	2.5
NNW	.4	.2										.5	2.7
VARBL													
CALM												29.7	
	23.3	26.2	14.3	5.3	.7	.3	.2					100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

1128

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

MAR
MONTH

01
HOURS (L.S.T.)

ALL WEATHER
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.0										1.9	2.7
NNE	.0											.6	1.0
NE	3.9	.0	.6	.6								5.8	4.3
ENE	1.3	.6										1.9	3.7
E	1.9	2.0										4.3	3.3
ESE	2.6	1.9	1.3									5.8	4.9
SE	3.9	1.9	1.9									7.7	4.3
SSE	2.6	.6	.6	.6								4.3	3.6
S	1.3	1.3										2.6	3.3
SSW			.6									.6	8.0
SW				.6								.6	11.0
WSW	.6	1.3										1.9	3.3
W	.6	1.9										2.6	5.3
WNW			.6									1.3	6.5
NW													
NNW													
VARBL													
CALM												57.4	
	20.6	14.2	5.6	1.3	.6							100.0	1.9

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA

73-77

YEARS

MAR

STATION NAME

ALL WEATHER
CLASS

YEARS

MAR

MONTH

04

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3			.6								1.9	5.3
NNE	.6	3.2				.6						4.3	7.3
NE	4.5	1.3		.6								6.3	3.8
ENE	6.3	3.9	.6		.6							11.6	4.1
E	6.3	.6	.6									7.7	2.8
ESE	1.3	1.7										3.2	4.4
SE	1.3	2.0	1.3	1.3								6.3	6.6
SSE	1.3	1.3										2.6	4.0
S	2.6	.6		.6								3.2	2.6
SSW												.6	13.0
SW													
WSW	1.3											1.3	3.0
W	.6	1.3	.6	.6								3.2	6.6
WNW													
NW													
NNW													
VARBL												47.1	
CALM												100.0	2.5
	27.7	16.8	3.2	3.9	.6	.6							

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

MAR

MONTH

07

HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.0		.6								2.6	6.3
NNE	1.9			.6								2.6	4.8
NE	4.3	.6		1.3								6.3	4.9
ENE	2.6	.6										3.2	1.8
E	11.0	2.6										13.3	2.3
ESE	1.9		.6									2.6	3.0
SE	.6	3.2	1.9									3.8	3.6
SSE	2.6	.6										3.2	2.6
S		.6	.6									1.3	6.0
SSW	.6											.6	3.0
SW													
WSW		.6	2.6									3.2	8.2
W		.6	.6									1.3	7.5
WNW				.6								.6	13.0
NW													
NNW													
VARBL													
CALM												32.9	
	27.1	10.3	6.5	3.2								100.0	2.0

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

MAR

MONTH

ALL WEATHER

CLASS

10

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6			.6								1.3	8.5
NNE	1.9	1.3		.6								3.9	4.5
NE	.6		.6		1.9							3.2	13.0
ENE	.6				.6							1.3	10.5
E	1.3	.6	.6									2.6	4.3
ESE	1.9	1.3										3.2	3.6
SE	1.9	1.3	.6	1.9								5.8	7.4
SSE	1.3	2.6	1.3									5.2	5.4
S	5.8	3.9	1.3	.6	.6							12.3	4.9
SSW	1.3	3.9	3.2									8.4	5.5
SW	1.9	2.6										4.5	3.1
WSW	1.3	3.9	1.9		.6							7.7	6.8
W	3.9	4.3	5.2	.6	.6							14.6	6.5
WNW	1.9	1.3		.6								3.9	4.3
NW	.6	.6				.6						1.9	10.0
NNW	.6	1.9										2.6	3.8
VARBL													
CALM												17.4	
	27.7	29.7	14.6	5.2	4.5	.6						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

MAR
MONTH

13
HOURS (L.S.T.)

ALL WEATHER
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N		.6	.6	.6								1.7	8.3
NNE													
NE	.6		1.3	1.3								3.2	9.6
ENE				.6								.6	14.0
E													
ESE		.6	.6									1.3	6.0
SE	.6	1.3	.6									2.6	5.5
SSE	.6											.6	2.0
S	1.3	2.6	2.6	2.6								9.0	7.4
SSW	1.3	5.2	7.1	1.9								15.3	7.4
SW	1.3	1.9	6.5	1.3								11.0	7.6
WSW	1.3	7.1	9.7	4.5	.6	.6						23.9	8.9
W	1.3	5.2	12.9	2.6								21.9	8.1
WNW		1.3	1.9	.6								3.9	8.5
NW		1.3		.6								1.9	9.0
NNW													
VARBL													
CALM												2.6	
	8.4	27.1	43.9	16.8	.6	.6						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

MAR
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.3										1.3	5.0
NNE													
NE	.6			.6								1.3	8.0
ENE													
E													
ESE	1.3	.6	.6									2.6	5.0
SE		.6										.6	5.0
SSE				1.3								1.3	13.0
S	1.3	.6	1.3	1.3								5.2	7.8
SSW		3.2	10.3	1.9								15.5	8.0
SW		1.9	7.7	1.3								11.0	8.7
WSW	1.3	9.0	13.5	3.9	1.3							29.0	8.3
W		5.6	12.9	8.4	1.3							28.4	9.7
WNW				1.3								1.3	13.0
NW			.6		.6							1.3	15.0
NNW													
VARBL													
CALM												1.3	
	4.5	23.2	47.7	20.0	3.2							100.0	8.6

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

MAR
MONTH

ALL WEATHER
CLASS

19
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6										.6	6.0
NNE	.6	.6	.6									1.9	5.3
NE	.6											.6	3.0
ENE		.6										.6	4.0
E	.6		.6									1.3	4.5
ESE	.6	1.3	.6									2.6	5.0
SE	1.3	.6	.6	.6								3.2	6.2
SSE	1.9	1.9		.6								4.5	5.3
S	7.1	5.3										12.9	3.4
SSW	3.2	6.5	1.3									11.0	4.4
SW	.6	4.2	.6									5.8	4.9
WSW	3.2	9.7	4.5	1.3								18.7	5.6
W	4.5	5.2	4.5	1.3								15.5	5.9
WNW	.6		.6									1.3	5.5
NW		.6			.6							.6	4.0
NNW												.6	18.0
VARBL													
CALM												16.1	
	25.2	38.1	14.2	3.9	.6							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

MAR

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

22

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6		.6									1.3	3.0
NNE		.6	.6									1.3	6.5
NE	1.3	1.9		.6	.6							4.5	7.0
ENE	5.2	.6										5.8	2.6
E	1.3	1.3	.6									3.2	4.4
ESE	2.6	5.2	.6									8.4	4.3
SE	1.3	3.9	1.3									6.5	3.0
SSE	3.9	2.6	1.3									7.7	4.1
S	1.9	1.9	.6	.6								4.5	4.4
SSW		.6										.6	4.0
SW		.6										.6	4.0
WSW	.6	1.9										2.6	4.5
W	1.3	.6	.6									2.6	4.3
WNW	.6	1.3	.6									2.6	5.5
NW		.6	.6									1.3	6.5
NNW													
VARBL													
CALM												46.5	
	20.6	23.9	7.1	1.3	.6							100.0	2.5

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

MAR
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.5	.2	.3								1.6	5.9
NNE	.7	.7	.2	.2		.1						1.9	5.5
NE	2.1	.0	.3	.6	.3							4.0	6.3
ENE	2.0	.0	.1	.1	.2							3.1	4.0
E	2.8	1.0	.3									4.8	3.1
ESE	1.5	1.6	.6									3.7	4.4
SE	1.4	1.9	1.0	.5								4.8	5.7
SSE	1.8	1.2	.4	.2	.1							3.7	4.9
S	2.7	2.2	.8	.6	.1							6.4	5.0
SSW	.8	2.4	2.8	.6								6.6	6.7
SW	.5	1.3	1.9	.4								4.2	6.9
WSW	1.2	4.2	4.0	1.2	.3	.1						11.0	7.4
W	1.5	3.1	4.7	1.7	.2							11.3	7.7
WNW	.4	.5	.4	.4								1.7	7.2
NW	.1	.5	.2	.1	.1	.1						1.0	9.0
NNW	.1	.2		.1	.1							.4	6.6
VABL													
CALM												30.4	
	20.2	22.9	17.9	6.9	1.4	.2						100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA

73-77

YEARS

APR

MONTH

ALL WEATHER

CLASS

01

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7											.7	2.0
NNE	.7	.7										1.3	2.5
NE	2.0	1.3										3.3	3.8
ENE	4.0	2.0										6.0	3.0
E	3.3	1.3										4.7	2.9
ESE	2.0	2.0										4.0	3.0
SE	2.7	4.0	.7									7.3	4.2
SSE		2.7	1.3									4.0	3.5
S	.7	1.3	1.3									3.3	3.4
SSW	.7											.7	3.0
SW		.7										.7	4.0
WSW	.7											.7	3.0
W	.7	3.3		.7								4.7	6.1
WNW	1.3	.7										2.0	3.3
NW													
NNW													
VARBL													
CALM												56.7	
	19.3	20.0	3.3	.7								100.0	1.7

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

APR

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

04

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.7										2.0	2.7
NNE	.7	.7										1.3	3.5
NE	.7	2.7	.7									4.0	5.5
ENE	4.7	.7										5.3	2.4
E	4.0	4.0										8.0	3.5
ESE	4.0	2.0										6.0	3.1
SE	3.3	.7	1.3									5.3	3.9
SSE	2.0	2.0	1.3									5.3	4.3
S	.7	.7										.7	4.0
SSW	.7											.7	2.0
SW	1.3											1.3	2.5
WSW													
W	.7	1.3		.7								2.7	6.0
WNW		2.0										2.0	4.7
NW													
NNW	.7											.7	2.0
VARBL													
CALM												54.7	
	24.0	17.3	3.3	.7								100.0	1.7

TOTAL NUMBER OF OBSERVATIONS

150

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME SANTA ANA, CALIFORNIA YEARS 73-77 MONTH APR
CLASS ALL WEATHER HOURS (L.S.T.) 07

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE	.7	.7				.7						2.0	10.3
NE	2.0											2.0	2.3
ENE	4.7	.7	.7									6.0	3.1
E	6.0	3.3										9.3	2.9
ESE	4.7	3.3										8.0	3.5
SE	3.3	3.3	.7									9.3	4.5
SSE	2.7	2.0										4.7	3.1
S	1.3	.7										2.0	2.7
SSW	2.0											2.0	2.3
SW	.7											.7	2.0
WSW	1.3		.7									2.0	4.3
W			.7									.7	7.0
WNW	.7		.7									1.3	5.5
NW													
NNW													
VARBL													
CALM												50.0	
	30.0	16.0	3.3			.7						100.0	1.9

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

APR
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3			.7								2.0	6.3
NNE													
NE	.7		.7		.7							2.0	10.7
ENE	.7											.7	1.0
E	2.0	1.3	.7									4.0	4.2
ESE	1.3	.7	.7									2.7	4.0
SE	.7	2.7										3.3	4.4
SSE	.7	1.3										2.0	4.0
S	3.3	4.0	2.0									9.3	4.6
SSW	.7	4.0	1.3	1.3								7.3	6.3
SW	2.7	2.0	.7									5.3	4.3
WSW	2.0	8.7	3.3									14.0	5.1
W	6.7	6.7	3.3	.7	.7							18.0	5.2
WNW	2.7	2.0	.7	.7								6.0	4.9
NW	1.3	.7										2.0	3.3
NNW	1.3	.7										2.0	3.7
VARB													
CALM												19.3	
	28.0	34.7	13.3	3.3	1.3							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

93114 SANTA ANA, CALIFORNIA

73-77

YEARS

APR

STATION NAME

ALL WEATHER

CLASS

YEARS

NORTH

13

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N				.7								.7	14.0
NNE			.7									.7	10.0
NE						.7						.7	24.0
ENE													
E	.7		.7									1.3	4.5
ESE													
SE	.7			.7								1.3	8.5
SSE			1.3									1.3	8.5
S		2.0	3.3	1.3								6.7	8.6
SSW	.7	1.3	6.7	2.7								13.3	8.9
SW		2.7	10.0	4.0								16.7	8.9
WSW	1.3	4.0	13.3	9.3	2.0							22.0	9.8
W	.7	2.7	16.7	2.7								22.7	8.6
WNW	.7				.7							.7	2.0
NW												.7	20.0
NNW													
VARBL													
CALM												1.3	
	4.7	12.7	36.7	21.3	2.7	.7						100.0	9.1

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SHOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

APR
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE				.7								.7	14.0
NE				.7								.7	12.0
ENE	.7											.7	3.0
E			.7									.7	10.0
ESE													
SE													
SSE	.7											.7	3.0
S		3.3	6.0									11.3	7.2
SSW		4.7	8.7	.7								14.0	7.4
SW		1.3	4.0	3.3								12.7	9.7
WSW	1.3	7.3	10.7	4.7	.7							30.7	8.4
W		2.7	12.0	9.3	.7							24.0	10.0
WNW	.7	.7				.7						2.0	7.7
NW		.7										1.3	13.0
NNW													
VARBL													
CALM												.7	
	3.3	20.7	34.0	19.3	1.3	.7						100.0	8.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

APR

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

HOURS (L.S.T.)

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			.7									.7	8.0
NNE		.7										.7	6.0
NE		.7										.7	5.0
ENE													
E													
ESE		.7										.7	5.0
SE		2.7	.7									3.3	5.0
SSE		3.3	1.3									4.7	6.0
S	4.0	13.3	2.7									20.0	4.7
SSW	6.0	10.0	2.0									18.0	4.6
SW	4.0	2.7	1.3									8.0	4.3
WSW	5.3	5.3	3.3		.7							14.7	5.3
W	1.3	8.0	5.3		1.3							16.0	7.2
WNW			1.3	.7								2.0	9.3
NW		.7	.7		.7							2.0	10.0
NNW													
VARBL													
CALM												8.7	
	20.7	48.0	19.3	.7	2.7							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

APR
MONTH

ALL WEATHER
CLASS

22
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE	.7											.7	2.0
NE	.7	1.3		.7								2.7	6.3
ENE	2.0	1.3										3.3	3.4
E	3.3	.7										4.0	2.3
ESE	4.7	1.3										6.0	2.9
SE	2.0	3.3	1.3									6.7	4.2
SSE	2.7	2.7	2.0									7.3	5.0
S	3.3	3.3	1.3									8.0	3.8
SSW	1.3	.7										2.0	3.3
SW	1.3	2.0										3.3	3.8
WSW	.7	.7										1.3	4.3
W	1.3	2.0	2.0									5.3	5.3
WNW													
NW			.7									.7	10.0
NNW													
VARBL													
CALM												48.7	
	24.0	19.3	7.3	.7								100.0	2.1

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

APR
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.1	.1	.2								.7	5.7
NNE	.3	.3	.1	.1								.9	6.8
NE	.7	.7	.2	.2	.1	.1						2.0	6.5
ENE	2.1	.6	.1									2.7	2.9
E	2.4	1.3	.2									4.0	3.4
ESE	2.1	1.2	.1									3.4	3.3
SE	1.6	2.3	.6	.1								4.6	4.5
SSE	1.1	1.7	.9									3.7	4.8
S	1.6	3.6	2.3	.2								7.7	5.4
SSW	1.5	2.6	2.6	.6								7.2	6.3
SW	1.2	1.4	2.5	.9								6.1	7.2
WSW	1.6	3.2	4.9	1.7	.4							11.9	7.7
W	1.4	3.3	5.0	1.7	.2							11.7	7.7
WNW	.7	.7	.3	.2	.1							2.0	5.5
NW	.2	.2	.2		.2	.1						.8	10.0
NNW	.2	.1										.3	3.3
VARBL													
CALM												30.0	
	19.2	23.6	70.1	5.8	1.0	.2						100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

1200

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

MAY

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

HOURS (L.S.T.)

01

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE	1.3											1.3	2.0
E	5.2	1.3										6.5	2.7
ESE	1.3	1.3	1.3									3.2	4.8
SE	1.3	1.3	1.3									3.9	4.7
SSE	4.5	3.3	.6									9.0	3.7
S	5.8	2.0	1.3									9.7	3.6
SSW	2.6	1.3										3.9	3.0
SW		.6										.6	5.0
WSW	1.3	1.3										3.2	3.8
W	1.3	1.3										3.2	3.8
WNW		.6										.6	5.0
NW													
NNW													
VARBL													
CALM												52.9	
	25.2	17.4	4.5									100.0	1.7

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

MAY

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

04

CLASS

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3										1.9	3.3
NNE													
NE	1.3	1.3										2.6	3.8
ENE	1.3											1.3	2.5
E	1.3	1.3										2.6	4.0
ESE	1.9	1.3										3.2	3.8
SE	2.6		.6									3.2	3.4
SSE	1.9	4.3	.6									7.1	4.5
S	1.3	3.2										4.3	4.1
SSW	2.6	1.3										3.9	3.5
SW	.6	1.3										1.9	4.7
WSW	1.9	1.9	.6									4.3	3.7
W		1.3										1.3	5.0
WNW		.6										.6	6.0
NW													
NNW													
VARBL													
CALM												61.3	
	17.4	19.4	1.9									100.0	1.5

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

MAY
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.3										1.3	4.5
NNE		.6										.6	5.0
NE	.6											.6	2.0
ENE	.6											.6	2.0
E	7.8	1.9	.6									10.4	3.0
ESE	3.2	3.9										7.1	3.5
SE	3.2	5.8	2.6									11.7	4.7
SSE	1.9	1.9	.6									4.5	4.4
S	1.9	5.8	.6									8.4	4.9
SSW	1.3	.6										1.9	4.0
SW	1.3	1.3										2.6	3.8
WSW	3.2		.6									3.9	2.8
W	1.3	.6	.6									2.6	4.8
WNW													
NW		.6										.6	6.0
NNW		.6										.6	5.0
VARBL													
CALM												42.2	
	26.6	25.3	5.8									100.0	2.3

TOTAL NUMBER OF OBSERVATIONS

154

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

MAY

MONTH

ALL WEATHER

CLASS

10

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.3	.0									3.2	4.0
NNE	.0											.6	3.0
NE													
ENE													
E	1.3	.0	.0									2.6	4.5
ESE	.0	.0		.0								1.9	7.0
SE	1.9	1.9	1.3									5.2	4.9
SSE	4.5	3.9	4.5									12.9	5.2
S	3.2	4.5	1.9	.0								10.3	5.5
SSW		3.2	3.2	1.3								9.7	7.4
SW	2.6	4.5	3.2									10.3	5.1
WSW	3.9	12.9	3.9	.0								21.3	5.0
W	1.3	2.0	.0									4.5	4.7
WNW	1.3	.0										1.9	3.0
NW													
NNW													
VARBL													
CALM												15.5	
	22.6	36.8	21.9	3.2								100.0	4.5

TOTAL NUMBER OF OBSERVATIONS

155

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

MAY

MONTH

ALL WEATHER

CLASS

13

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE	.6											.6	2.0
E													
ESE													
SE			1.3	.6								1.9	9.0
SSE				.6								.6	12.0
S	.6	.6	.6	.6								1.9	9.0
SSW	3.9	7.7	5.2	.6								18.1	9.0
SW	.6	3.2	10.3	3.2								17.4	8.7
WSW	7.7	18.1	.6	.6								26.5	7.8
W	1.3	9.7	13.5	4.3								29.0	8.0
WNW		3.2										3.2	8.4
NW													
NNW													
VARBL													
CALM												.6	
	3.2	25.2	54.8	15.5	.6							100.0	8.2

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

STATION NAME
SANTA ANA, CALIFORNIA

YEARS
73-77

MONTH
MAY

CLASS
ALL WEATHER

HOURES (L.S.T.)
16

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE	.6											.6	3.0
SSE													
S		1.9	3.2	.6								5.8	7.8
SSW		4.5	12.9	3.2	.6							21.3	9.0
SW	1.3	3.2	7.7	2.6								14.8	8.3
WSW	.6	9.0	17.4	1.9								29.0	8.0
W	.6	9.0	12.9	4.5								27.1	8.0
WNW													
NW													
NNW													
VARBL												1.3	
CALM													
	3.2	27.7	54.2	12.9	.6							100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

STATION NAME
SANTA ANA, CALIFORNIA

YEARS
73-77

MONTH
MAY

CLASS
ALL WEATHER

HOURS (L.S.T.)
19

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6										.6	5.0
NNE													
NE													
ENE													
E													
ESE			.6	.6								1.3	10.3
SE			.6									.6	10.0
SSE	.6	.6	1.3									2.6	6.0
S	.6	9.7	1.3									11.6	5.3
SSW	1.3	9.7	5.8									16.8	5.6
SW	1.9	8.4	8.5									16.8	5.9
WSW	5.2	19.4	2.6									27.1	4.7
W	3.2	9.0	3.2									17.4	5.6
WNW			.6									.6	8.0
NW	.6		.6									1.3	5.3
NNW	.6											.6	2.0
VARBL													
CALM												2.6	
	14.2	57.4	25.2	.6								100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

AD-A063 833

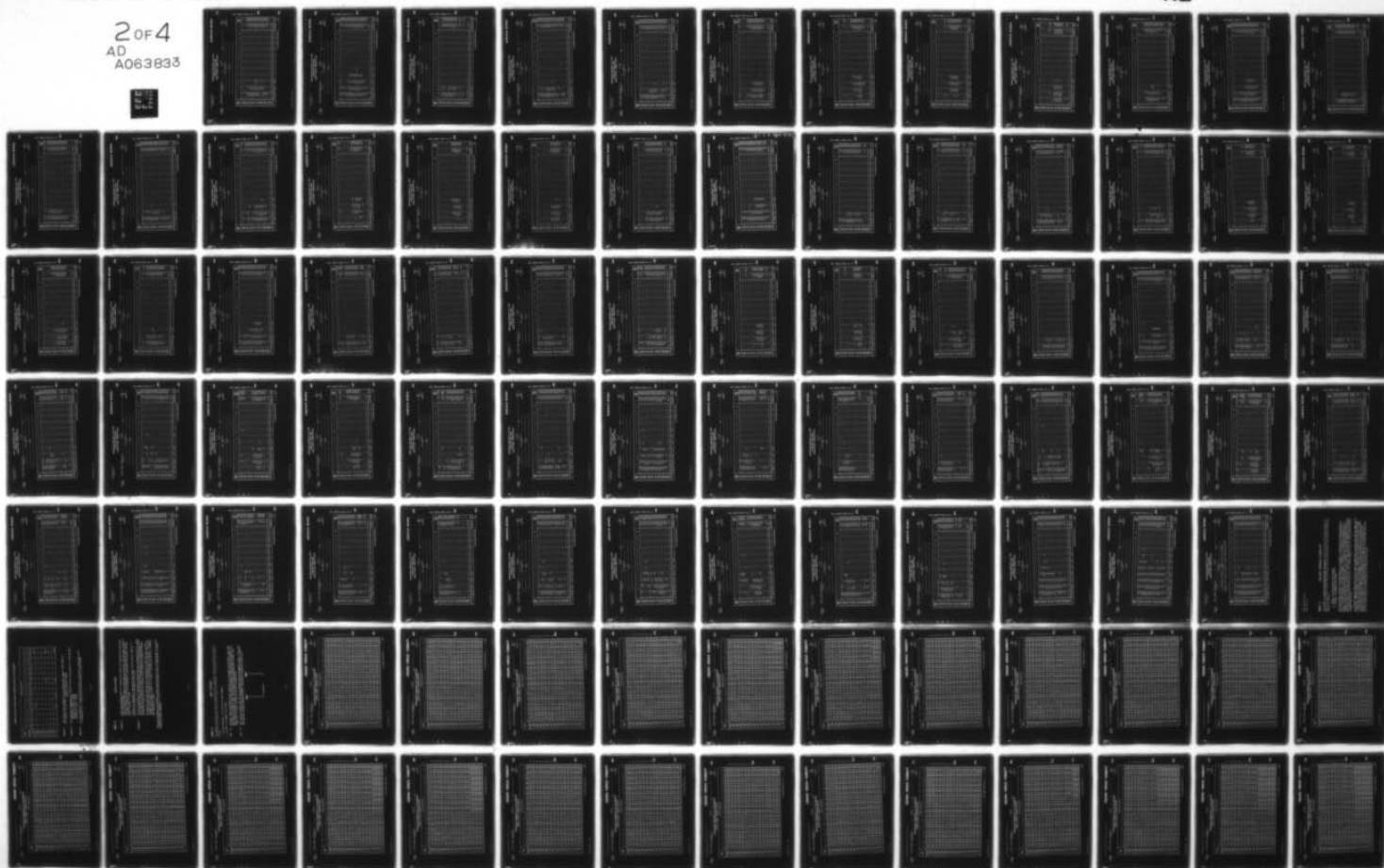
NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS) SANTA AN--ETC(U)
JUL 78

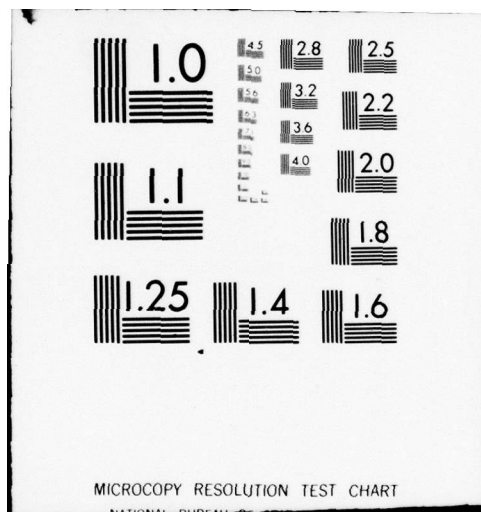
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NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

SANTA ANA, CALIFORNIA

73-77

YEARS

MAY

MONTH

ALL WEATHER

CLASS

22

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE	.6											.6	2.0
E	1.9	.6										2.6	2.8
ESE	1.3	.6										1.9	3.3
SE	3.9	2.6										6.5	3.3
SSE	2.6	4.3										7.1	4.4
S	7.1	5.2	2.6									14.9	4.0
SSW	3.2	1.9	.6									5.8	3.7
SW	1.9	1.3										3.2	3.2
WSW		1.3										1.3	4.3
W	7.1	3.9	.6									11.7	3.6
WNW	.6	.6										1.3	3.0
NW	1.3											1.3	2.0
NNW	.6											.6	3.0
VARBL													
CALM												40.9	
	32.5	22.7	3.9									100.0	2.2

TOTAL NUMBER OF OBSERVATIONS

154

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

MAY
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.6	.1									.9	4.1
NNE	.1	.1										.2	4.0
NIE	.2	.2										.4	3.4
ENE	.5											.6	2.1
E	2.0	.6	.1									2.7	3.0
ESE	1.2	1.1	.3	.1								2.7	4.4
SE	1.3	1.3	.6	.2								3.8	4.8
SSE	1.7	2.2	.6	.1								4.3	4.6
S	2.7	4.1	1.8	.2								8.7	4.9
SSW	1.9	3.3	3.6	1.1	.2							10.3	6.8
SW	1.0	2.8	3.7	.9								8.4	7.1
WSW	1.9	3.7	3.3	.3								13.2	6.3
W	2.3	5.1	4.0	1.2								14.2	6.4
WNW	.2	.6	.6									1.4	5.9
NW	.4	.2	.1									.6	3.8
NNW	.2	.1										.2	3.3
VARBL													
CALM												27.1	
	18.1	29.0	21.6	4.0	.2							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

1238

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

JIM

93114

SANTA ANA, CALIFORNIA

STATION NAME

73-77

YEARS

JUN

MONTH

ALL WEATHER

CLASS

01

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

TOTAL NUMBER OF OBSERVATIONS

150

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE	1.3	1.3										2.7	3.0
ENE	1.3	.7										2.0	2.3
E	4.7											4.7	2.0
ESE	1.3											1.3	2.0
SE	4.0	1.3										5.3	2.5
SSE	3.3	.7										4.0	2.7
S	8.7	5.3										14.0	2.8
SSW	4.0	2.7										6.7	3.4
SW	.7	2.0										2.7	4.0
WSW													
W	2.7	.7										3.3	2.8
WNW													
NW	.7											.7	2.0
NNW													
VARBL													
CALM												52.7	
	32.7	14.7										100.0	1.3

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

JUN
MONTH

ALL WEATHER

CLASS

04
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3											1.3	2.0
NNE	.7											.7	2.0
NE	2.7	1.3										4.0	3.2
ENE	2.0											2.0	2.3
E	4.0	.7										4.7	2.9
ESE	4.0	1.3										5.3	2.3
SE	1.3	2.0										3.3	3.8
SSE	2.0	2.0										4.0	3.2
S	3.3	3.3	.7									7.3	3.3
SSW	1.3	2.7										4.0	3.7
SW	.7											.7	1.0
WSW	1.3	.7										2.0	2.7
W	.7	.7										.7	4.0
WNW	.7											.7	2.0
NW	1.3											1.3	2.0
NNW	.7											.7	2.0
VARBL													
CALM												57.3	
	27.3	14.7	.7									100.0	1.3

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

JUN
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7											.7	1.0
NNE	.7											.7	3.0
NE	2.0											2.0	2.7
ENE	1.3											1.3	2.0
E	6.0											6.0	1.9
ESE	2.7	4.0										6.7	3.8
SE	1.3	2.7										4.0	4.0
SSE	3.3	4.0										7.3	3.1
S	4.7	3.3	.7									8.7	3.7
SSW	3.3	1.3										4.7	3.0
SW	1.3											1.3	3.0
WSW	.7											.7	3.0
W	2.0	2.0										4.0	3.2
WNW	.7	.7	.7									2.0	5.3
NW	.7	.7										1.3	2.3
NNW		.7										.7	5.0
VARBL													
CALM												48.0	
	31.3	19.3	1.3									100.0	1.7

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

JUN
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7											.7	1.0
NNE													
NE													
ENE													
E													
ESE	.7											.7	2.0
SE	.7											.7	2.0
SSE	.7	1.3										2.0	3.7
S	4.0	7.3	.7									12.0	4.1
SSW	2.7	6.7	1.3									10.7	4.9
SW	.7	5.3	2.0									8.0	5.6
WSW	2.7	7.3	2.7									12.7	5.4
W	6.0	20.0	6.7									34.7	5.3
WNW	3.3	2.0	1.3									6.7	4.0
NW		.7										.7	4.0
NNW													
VARBL													
CALM												10.7	
	22.0	50.7	16.7									100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

STATION NAME
SANTA ANA, CALIFORNIA

YEARS
73-77

MONTH
JUN

ALL WEATHER
CLASS

HOURS (L.S.T.)
13

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE	.7											.7	2.0
E													
ESE													
SE													
SSE			.7									.7	9.0
S		3.3	4.0	.7								8.0	7.2
SSW		1.3	5.7	.7								8.7	8.4
SW	.7	.7	8.0	2.7								12.0	8.9
WSW	1.3	6.0	18.0	2.7								30.0	7.8
W	2.0	11.3	21.3	2.0								36.7	7.3
WNW			2.0									2.0	7.7
NW			1.3									1.3	8.0
NNW													
VARBL													
CALM												.0	
	4.7	24.7	62.0	8.7								100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

JUN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

16

HOURS (L.S.T.)

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E	.7											.7	2.0
ESE													
SE													
SSE			.7									.7	8.0
S		2.0	5.3	.7								8.0	7.5
SSW		4.7	6.7	1.3								12.7	7.8
SW	.7	4.0	7.3	2.0								14.0	8.0
WSW		8.7	20.7	4.0								33.3	7.9
W	.7	13.3	14.0	1.3								29.3	7.1
WNW			.7									.7	8.0
NW			.7									.7	7.0
NNW													
VARBL													
CALM												.0	
	2.0	32.7	50.0	9.3								100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION
93114

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

JUN

MONTH

ALL WEATHER

CLASS

19

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE		.7										.7	6.0
SE													
SSE													
S	2.7	10.0	1.3									14.0	4.3
SSW	3.3	6.0	5.3	.7								15.3	6.0
SW	2.0	9.3	4.0									15.3	5.0
WSW	2.0	20.0	8.0	.7								30.7	5.7
W	1.3	14.0	6.0									21.3	5.8
WNW													
NW													
NNW	.7											.7	2.0
VARBL													
CALM												2.0	
	12.0	60.0	24.7	1.3								100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION
93114

SANTA ANA, CALIFORNIA

73-77

YEARS

JUN

ALL WEATHER

CLASS

MONTH

22

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E		.7										.7	4.0
ESE	3.3	.7										4.0	2.3
SE	2.7	2.7										3.3	3.1
SSE	5.3	2.0										7.3	2.6
S	11.3	8.0	1.3									20.7	3.5
SSW	5.3	4.0	1.3									10.7	4.1
SW	2.7	1.3										4.0	3.0
WSW	4.7	4.7										9.3	3.5
W	2.7	4.7	.7									8.0	4.2
WNW		.7										.7	5.0
NW	.7											.7	2.0
NNW	.7											.7	1.0
VARBL													
CALM												28.0	
	39.3	29.3	3.3									100.0	2.5

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

JUN
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3											.3	1.5
NNE	.2											.2	2.5
NE	.7	.3										1.1	3.0
ENE	.7	.1										.7	2.2
E	1.6	.2										2.0	2.3
ESE	1.6	.8										2.4	3.0
SE	1.2	1.1										2.3	3.2
SSE	1.6	1.2	.2									3.2	3.2
S	4.3	5.3	1.7	.2								11.6	4.3
SSW	2.5	3.7	2.7	.3								9.2	5.6
SW	1.2	2.8	2.7	.6								7.2	6.3
WSW	1.6	6.2	6.2	.9								14.8	6.6
W	2.2	8.3	6.3	.4								17.2	6.1
WNW	.9	.4	.6									1.6	4.9
NW	.4	.2	.2									.8	4.0
NNW	.2	.1										.3	2.5
VARBL													
CALM												24.8	
	21.4	30.7	20.6	2.4								100.0	4.0

TOTAL NUMBER OF OBSERVATIONS

1200

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

2800

5702 SURFACE WINDS JAN 78

0000

0000

93114 STATION

SANTA ANA, CALIFORNIA

73-77 YEARS

JUL MONTH

01

HOURS (G.M.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE	.6											.6	2.0
ENE	1.3											1.3	2.5
E	3.2											3.2	2.2
ESE	1.9	.6										2.6	2.5
SE	2.6	3.2										5.8	3.3
SSE	4.5	2.6										7.1	2.9
S	7.1	3.2										10.3	2.9
SSW	6.5	.6										7.1	2.2
SW	3.2	.6										3.9	2.5
WSW	1.9	1.9										3.9	3.2
W	1.9	.6										2.6	2.8
WNW	1.3	.6										1.9	3.0
NW												.6	2.0
NNW	.6												
VARBL													
CALM												49.0	
	36.8	14.2										100.0	1.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

0000

93114
STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

JUL

MONTH

ALL WEATHER

CLASS

04

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6											.6	3.0
NNE													
NE	1.3	.6										1.3	3.0
ENE	.6	.6										1.3	3.3
E	3.2	1.9										5.2	2.9
ESE	3.2	1.3										4.5	2.4
SE	3.2	2.6										5.8	3.3
SSE	1.9	1.3										3.2	3.0
S	5.8	1.3										7.1	2.5
SSW	3.2	2.6										5.8	3.0
SW	1.9	.6										2.6	3.5
WSW	1.3											1.3	2.5
W	2.6											2.6	1.8
WNW	.6											.6	2.0
NW													
NNW													
VARBL													
CALM												57.4	
	29.7	12.9										100.0	1.2

TOTAL NUMBER OF OBSERVATIONS

155

0000

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

JUL

MONTH

ALL WEATHER

CLASS

07

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.9											1.9	2.0
NNE	1.3											1.3	1.5
NE	.6	.6										1.3	3.0
ENE	1.9	.6										2.6	2.5
E	5.6	.6										6.5	2.4
ESE	1.9		.6									2.6	3.3
SE	1.9	2.0										4.5	3.6
SSE	1.9	1.3										3.2	3.0
S	5.2	1.9										7.1	2.9
SSW	5.2	1.9										5.2	3.3
SW		.6										.6	6.0
WSW	1.3											1.3	2.0
W	5.2	.6										5.8	2.3
WNW	5.2											3.2	2.2
NW	.6											.6	2.0
NNW	1.3											1.3	2.5
VARBL													
CALM												51.0	
	37.4	11.0	.6									100.0	1.3

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

SANTA ANA, CALIFORNIA

73-77

YEARS

JUL

MONTH

ALL WEATHER

CLASS

10

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIRE.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												1.3	4.0
NNE	.6	.6											
NE													
ENE		.6										.6	4.0
E	1.3	.6										1.9	3.3
ESE			.6									.6	8.0
SE	.6											.6	2.0
SSE	.6	.6										1.3	3.3
S	1.3	4.3	1.3									7.1	4.3
SSW	1.3	.6	1.3									3.2	5.6
SW	1.3	4.3	2.6									8.4	5.4
WSW	3.9	13.3	3.9									21.3	5.0
W	5.8	16.8	2.6	.6								25.8	4.8
WNW	1.9	3.2	.6									5.8	4.4
NW	1.3	3.2	.6									5.2	4.3
NNW	.6	1.3										1.9	3.7
VARBL													
CALM												14.8	
	20.6	50.3	13.3	.6								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

JUL
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE		.6										.6	3.0
NE													
ENE													
E													
ESE													
SE													
SSE													
S		1.3	2.6	.6								4.5	7.1
SSW	.6	1.9	3.9									6.5	7.0
SW		1.3	8.4	1.3								11.0	8.9
WSW		9.7	25.2	2.6								37.4	8.0
W	.6	9.0	24.5	3.2								37.4	8.1
WNW	.6	.6		.6								1.9	7.0
NW			.6									.6	8.0
NNW													
VARBL												.0	
CALM													
	1.9	24.5	65.2	8.4								100.0	8.0

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

JUL

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

16

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S		.6		.6								1.3	8.3
SSW		3.9	5.4	3.2								15.5	8.3
SW		3.2	7.1	3.2								13.5	8.6
WSW	.6	11.0	15.5	1.9								29.0	7.4
W		12.9	21.9	1.9								36.8	7.7
WNW		.6	2.0									3.2	8.2
NW													
NNW													
VABBL													
CALA												.6	
	.6	32.3	55.5	11.0								100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

SANTA ANA, CALIFORNIA

73-77

STATION NAME

ALL WEATHER

YEARS

JUL

MONTH

19

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
N													
ENE													
E													
ESE													
SE													
SSE													
S	3.2	6.3	3.2									12.9	3.1
SSW	1.3	9.0	3.2									15.3	5.9
SW	.6	8.4	8.4									17.4	6.4
WSW	7.1	17.4	1.9	.6								27.1	4.6
W	2.6	14.2	6.3									23.2	5.7
WNW		.6	.6									1.3	6.3
NW													
NNW													
VARBL													
CALM												2.6	
	14.8	56.1	29.6	.6								100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

STATION NAME
SANTA ANA, CALIFORNIA

73-77

YEARS

JUL

MONTH

ALL WEATHER

CLASS

22

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E	1.3	.0										1.9	3.0
ESE	.6	3.2										3.9	4.0
SE	.6	1.9										2.6	3.8
SSE	5.2	1.9										7.1	2.6
S	9.7	7.7										17.4	3.1
SSW	9.0	7.7										16.8	3.3
SW	5.2	1.9	.6									7.7	3.2
WSW	1.9	3.2										5.2	3.6
W	9.7	1.9										11.6	2.9
WNW	.6	.6										1.3	2.5
NW													
NNW	.6											.6	3.0
VARBL													
CALM												23.9	
	44.5	31.0	.0									100.0	2.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

ALL WEATHER
CLASS

YEARS

JUL

MONTH

ALL

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3											.3	2.3
NNE	.2	.2										.4	3.2
NE	.3	.2										.5	2.8
ENE	.3	.2										.7	2.9
E	1.9	.3										2.3	2.7
ESE	1.0	.6	.2									1.8	3.3
SE	1.1	1.3										2.4	3.6
SSE	1.8	1.0										2.7	2.9
S	4.0	3.4	.9	.2								8.3	3.9
SSW	3.1	3.3	2.3	.4								9.4	3.2
SW	1.3	2.7	3.4	.6								8.1	6.4
WSW	2.3	7.1	3.8	.6								15.8	6.2
W	3.3	7.0	6.9	.7								18.2	6.2
WNW	1.0	.8	.3	.1								2.4	4.7
NW	.2	.4	.2									.8	4.4
NNW	.4	.2										.6	3.0
VARBL													
CALM												24.9	
	23.3	29.0	20.2	2.6								100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

0000

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

AUG
MONTH

ALL WEATHER
CLASS

01
HOURS (L.S.T.)

CONDITION

CONDITION

5702 SURFACE WINDS JAN 78

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6											.6	2.0
NNE	.6											.6	3.0
NE	1.3											1.3	2.0
ENE	.6											.6	2.0
E	2.6											2.6	1.8
ESE	3.2	1.3										4.5	3.1
SE	1.3	.6										1.9	2.7
SSE	2.6	1.9										4.5	3.1
S	7.1											7.1	2.2
SSW	1.3	.6										1.9	2.7
SW	.6	.6										1.3	3.5
WSW	1.9	1.3										3.2	2.6
W	1.9	.6										2.6	3.3
WNW													
NW												.6	6.0
NNW		.6											
VARBL												66.5	
CALM												100.0	.9
	25.8	7.7											

TOTAL NUMBER OF OBSERVATIONS

155

0000

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

SANTA ANA, CALIFORNIA

73-77

STATION NAME

ALL WEATHER
CLASS

YEARS

AUG

MONTH

04

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6											.6	2.0
NNE													
NE	1.3											1.3	1.5
ENE	1.3	1.3										2.6	3.0
E	6.3	.6										7.1	2.2
ESE	4.3	.6										5.2	2.6
SE	.6											.6	2.0
SSE	4.3	1.3										5.8	2.7
S		2.6										2.6	4.3
SSW	1.3	.6										1.9	3.3
SW		.6										.6	4.0
WSW	1.3											1.3	2.3
W	.6	.6										1.3	3.3
WNW													
NW													
NNW	.6	.6										1.3	4.0
VARBL													
CALM												67.7	
	23.2	9.0										100.0	.9

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

AUG

STATION

STATION NAME

YEARS

NORTH

ALL WEATHER

07

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6											.6	2.0
NNE	1.3											1.3	2.0
NE	3.2	2.6										5.8	3.2
ENE	5.8	.6										6.5	2.4
E	5.2	.6										5.8	2.8
ESE	3.2	1.3										4.5	2.6
SE	2.6	1.3	.6									5.2	3.9
SSE	4.5	1.3										5.8	2.7
S	5.8	1.3										7.1	2.6
SSW	3.2											3.2	1.8
SW	.6											.6	2.0
WSW													
W	1.9	1.3										3.9	3.2
WNW	.6											.6	2.0
NW	.6											.6	2.0
NNW		.6										.6	3.0
VARBL													
CALM												47.7	
	39.4	12.3	.6									100.0	1.5

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

AUG
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.6										1.3	3.5
NNE													
NE	.6											.6	2.0
ENE													
E	.6											.6	1.0
ESE	1.9											1.9	2.0
SE	.6	.6										1.3	3.5
SSE	2.6	1.3	.6									4.5	3.7
S	.6	1.3										1.9	3.3
SSW	1.9	3.4	1.3									6.3	4.9
SW	1.9	1.3	1.3									4.5	4.6
WSW	6.3	11.0										17.4	3.9
W	8.4	17.4	3.9									29.7	4.6
WNW	.6	3.4										5.8	4.3
NW	3.9	1.9										5.8	2.6
NNW	1.3											1.3	2.0
VARBL													
CALM												16.8	
	32.3	43.9	7.1									100.0	3.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

AUG

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

13

CLASS

HOURS (L S T)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE			.6									.6	9.0
SSE													
S		.6	.6									1.3	6.5
SSW		.6	3.2	2.6								6.5	9.6
SW	.6	5.2	5.2	1.3								12.3	7.2
WSW	.6	16.1	19.4	4.3								40.6	7.5
W		7.7	24.5	2.6								34.8	8.1
WNW		.6	2.6									3.2	7.2
NW													
NNW													
VARBL													
CALM												.6	
	1.3	31.0	50.1	11.0								100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

AUG
MONTH

16
HOURS (L.S.T.)

ALL WEATHER
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE			.6									.6	7.0
SSE													
S			1.9									1.9	7.7
SSW		3.2	1.9	1.3								6.5	7.8
SW		2.6	3.9	.6								7.1	7.5
WSW	.6	18.7	24.5	2.6								46.5	7.2
W	.6	8.4	25.2	1.3								35.5	7.5
WNW													
NW													
NNW													
VARBL													
CALM												1.9	
	1.3	32.9	58.1	5.8								100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

AUG

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

19

CLASS

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

TOTAL NUMBER OF OBSERVATIONS

155

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE		.6										.6	5.0
SE			.6									.6	8.0
SSE	.6		.6									1.3	5.5
S	1.9	11.6	1.3									14.8	4.5
SSW	1.9	11.0	1.9									14.8	4.7
SW	1.9	5.6	1.3									9.0	4.9
WSW	9.0	14.2	5.6	.6								29.7	4.9
W	3.9	14.2	5.2									23.2	5.2
WNW		1.9	.6									2.6	5.3
NW													
NNW													
VARBL													
CALM												3.2	
	19.4	59.4	17.4	.6								100.0	4.7

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

72-77

YEARS

AUG

STATION

STATION NAME

ALL WEATHER

YEARS

MOUTH

22

HOURS (L & T.)

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE	1.9											1.9	2.0
ENE													
E	.6	.6										1.3	3.0
ESE	2.6	1.3										3.9	3.0
SE	.6	1.9										2.6	3.3
SSE	3.9	1.9	.6									6.3	3.4
S	15.5	2.6	.6									18.7	2.6
SSW	5.8	2.6										8.6	3.0
SW	1.9											1.9	2.7
WSW	3.9	2.6										6.3	3.0
W	5.2	7.1										12.3	3.6
WNW	1.3	.6										1.9	3.0
NW	.6											.6	2.0
NNW													
VARBL													
CALM												33.5	
	43.9	21.3	1.3									100.0	2.0

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET 52105

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

AUG

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

ALL

MOVES (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.1										.4	2.6
NNE	.2											.2	2.3
NE	1.0	.3										1.4	2.6
ENE	1.0	.2										1.2	2.5
E	1.7	.2										2.2	2.3
ESE	1.9	.5										2.6	2.8
SE	.7	.5	.3									1.7	4.0
SSE	2.3	1.0	.2									3.3	3.2
S	3.7	2.3	.6									6.9	3.6
SSW	1.9	2.7	1.0	.3								6.2	3.2
SW	1.0	2.0	1.3	.2								4.7	3.9
WSW	3.0	6.0	6.2	1.0								18.1	6.1
W	2.8	7.3	7.3	.3								17.9	6.1
WNW	.3	1.0	.4									1.3	4.9
NW	.6	.4										.9	2.5
NNW	.2	.4										.5	3.8
VARBL													
CALM												29.8	
	23.3	27.2	17.6	2.2								100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

1240

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

STATION NAME

73-77

YEARS

SEP

MONTH

ALL WEATHER

CLASS

01

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7											.7	2.0
NNE	.7											.7	2.0
NE	1.3											1.3	2.0
ENE	2.7											2.7	2.0
E													
ESE	2.7	.7										3.3	2.8
SE	3.3	2.0										5.3	3.1
SSE	.7	.7										1.3	3.0
S	4.0	1.3										5.3	2.9
SSW	2.7	1.3										4.0	3.3
SW	1.3											1.3	1.5
WSW	1.3											1.3	2.0
W	1.3	.7										2.0	3.7
WNW													
NW	1.3	1.3										2.7	3.3
NNW	1.3	.7										2.0	2.0
VARBL												66.0	
CALM												100.0	.9
	25.3	8.7											

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

STATION NAME
SANTA ANA, CALIFORNIA

73-77

YEARS

SEP

MONTH

ALL WEATHER

CLASS

04

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.7										2.0	2.7
NNE													
NE	1.3	.7										2.0	2.7
ENE	.7	.7										1.3	3.3
E	2.0											2.0	2.0
ESE	.7	1.3										6.0	2.8
SE	2.0	.7										2.7	3.0
SSE	.7	2.0										2.7	4.0
S	4.0	2.0										6.0	2.8
SSW	2.0											2.0	2.3
SW													
WSW	.7											.7	2.0
W	.7	.7										1.3	3.0
WNW	1.3	.7										2.0	3.3
NW													
NNW		1.3										1.3	5.0
VARBL													
CALM												68.0	
	21.3	10.7										100.0	.9

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

SANTA ANA, CALIFORNIA

73-77

SEP

STATION NAME

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

HOURS (L.S.T.)

07

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.7	.7									2.7	4.8
NNE	1.3											1.3	2.5
NE	.7		.7									1.3	5.0
ENE	.7	2.0										2.7	3.5
E	3.3	2.0										5.3	3.3
ESE	1.3	1.3										2.7	3.5
SE	1.3	2.0										3.3	3.6
SSE	1.3	2.0										3.3	3.6
S	5.0	2.0										8.0	2.8
SSW	2.0											2.0	2.3
SW	.7											.7	2.0
WSW	.7	.7										1.3	3.0
W	2.0											2.0	2.3
WNW	2.0											2.0	2.3
NW		.7	.7									1.3	8.0
NNW		.7										.7	4.0
VARBL													
CALM												59.3	
	24.7	14.0	2.0									100.0	1.4

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

SEP

STATION

STATION NAME

YEARS

ALL WEATHER

MONTH

10

HOURS (L.S.T.)

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7		.1									1.3	6.0
NNE	.7											.7	2.0
NE	.7				.7							1.3	11.0
ENE													
E	.7											.7	2.0
ESE	1.3											1.3	2.0
SE	.7	3.3										4.0	3.7
SSE	2.0	.7										2.7	2.8
S	4.7	5.3										10.0	3.6
SSW	1.3	3.3	.7									5.3	4.0
SW	1.3	.7	2.7									4.7	5.4
WSW	4.0	10.0	1.3									15.3	4.3
W	12.7	7.3	1.3									21.3	3.5
WNW	6.7	1.3										8.0	2.8
NW	1.3											1.3	2.0
NNW	.7	1.3	1.3									3.3	5.8
VARBL													
CALM												18.7	
	39.3	33.3	8.0		.7							100.0	3.2

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

SEP
MONTH

13
HOURS (L.S.T.)

ALL WEATHER
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE				.7								.7	18.0
E													
ESE													
SE													
SSE	.7											.7	3.0
S		.7	.7									1.3	6.0
SSW	.7	3.3	2.0	.7								6.7	6.5
SW		3.3	3.3	1.3								10.0	7.6
WSW	.7	15.3	25.3	3.3								44.7	7.4
W	2.0	14.0	14.7	2.0								32.7	6.8
WNW		1.3										1.3	5.0
NW												.7	6.0
MNW		.7											
VARBL												1.3	
CALM													
	4.0	40.7	46.0	7.3	.7							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

SANTA ANA, CALIFORNIA

73-77

YEARS

SEP

STATION NAME

ALL WEATHER

MONTH

16

MOUSE (L.S.T.)

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE				.7								.7	13.0
E													
ESE													
SE													
SSE													
S	.7	1.3	2.0	.7								4.7	7.1
SSW		6.0	7.3	1.3								14.7	8.0
SW	2.0	6.7	6.7									15.3	6.2
WSW	1.3	15.3	19.3	.7								36.7	6.9
W	.7	9.3	16.0	1.3								27.3	7.3
WNW													
NW													
NNW													
VARBL													
CALM												.7	
	4.7	38.7	51.3	4.7								100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

SEP
MONTH

ALL WEATHER
CLASS

19
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												.7	2.0
NNE	.7												
NE													
ENE													
E	.7											.7	2.0
ESE													
SE		1.3	.7									1.3	4.0
SSE		.7	.7									1.3	6.3
S	5.3	8.7	.7	.7								15.3	4.3
SSW	4.0	6.7	4.7									13.3	4.3
SW	2.7	3.3										6.0	3.7
WSW	11.3	11.3	2.0									24.7	3.9
W	8.7	12.0	1.3									22.0	4.1
WNW	1.3		.7									2.0	4.7
NW		.7										.7	5.0
NNW	.7											.7	3.0
VARBL													
CALM												11.3	
	35.3	44.7	8.0	.7								100.0	3.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

93114 SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

SEP

MONTH

ALL WEATHER

CLASS

22

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE	1.3											1.3	2.5
E	2.0	.7										2.7	3.5
ESE	1.3	.7										2.0	3.3
SE	1.3	2.7										4.0	4.2
SSE	.7	.7										1.3	3.0
S	6.0	4.0										10.0	3.1
SSW	3.3											3.3	2.2
SW	1.3	.7										2.0	3.0
WSW	2.7	1.3										4.0	3.7
W	4.7	1.3										6.0	2.8
WNW	2.0	2.0										4.0	3.0
NW	1.3	.7										2.0	3.3
NNW	1.3	1.3										2.7	3.0
VARBL													
CALM												54.7	
	29.3	16.0										100.0	1.4

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEAR

SEP

MONT

ALL WEATHER

ALL

HOURS (L.S.T.)

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.2	.2									.8	4.1
NNE	.6											.4	2.2
NE	.5	.1	.1		.1							.7	4.9
ENE	.7	.3		.1	.1							1.2	4.6
E	1.1	.3										1.4	2.9
ESE	1.6	.5										1.7	3.0
SE	1.1	1.5										2.0	3.5
SSE	.7	.0	.1									1.7	3.6
S	3.8	3.2	.4	.2								7.6	3.8
SSW	2.0	2.0	1.0	.2								6.4	5.3
SW	1.2	2.1	1.0	.2								5.0	5.7
WSW	2.8	6.7	6.0	.5								16.1	6.0
W	4.1	5.7	4.2	.4								14.3	5.4
WNW	1.7	.7	.1									2.4	3.2
NW	.5	.4	.1									1.0	4.0
NNW	.5	.7	.2									1.4	4.1
VARBL												35.0	
CALM												100.0	3.2
	23.0	25.8	14.4	1.6	.2								

TOTAL NUMBER OF OBSERVATIONS

1200

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

OCT

MONTH

ALL WEATHER

CLASS

01

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6											.6	1.0
NNE	1.9	1.3										3.2	2.6
NE	.6	.6										1.3	2.5
ENE	4.5	1.3	.0									6.3	3.0
E	2.6	.6										3.2	2.6
ESE	1.9	.6	.6									3.2	4.0
SE	1.9	1.3										3.2	3.8
SSE	3.2	1.3	.6									5.2	3.9
S	3.9	.6										4.5	2.7
SSW	.6											.6	2.0
SW													
WSW		1.3										1.3	6.0
W		.6		.6								1.3	9.0
WNW	1.3											1.3	2.5
NW	.6											.6	2.0
NNW	.6											.6	1.0
VARBL													
CALM												63.2	
	24.5	9.7	1.9	.6								100.0	1.2

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

OCT
MONTH

ALL WEATHER
CLASS

04
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	.0										3.2	2.8
NNE	1.9											1.9	1.3
NE	6.5	1.9		.6								9.0	3.6
ENE	3.9	5.2										9.0	3.4
E	1.3	1.9										3.2	3.4
ESE	3.2	1.9	.6									5.8	3.6
SE	2.6	.0										3.2	2.2
SSE	.6	1.3										1.9	3.7
S	2.6											2.6	2.3
SSW	.6	.0										1.3	3.5
SW		1.3										1.3	5.5
WSW													
W	.6	.6	.6									1.9	5.0
WNW													
NW													
NNW		.6	.6									1.3	6.0
VARBL													
CALM												54.2	
	26.5	16.8	1.9		.6							100.0	1.6

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

OCT

MONTH

ALL WEATHER

CLASS

07

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.3										3.2	2.8
NNE	5.8											5.8	2.1
NE	3.9	1.3										5.2	2.8
ENE	5.2	2.6										7.7	2.5
E	5.2	1.9		.6								7.7	3.8
ESE	3.2	1.9	1.3									6.3	4.4
SE	1.3	1.3	1.3									3.9	5.2
SSE	.6	1.9										2.6	4.3
S		.6										.6	5.0
SSW		1.3										1.3	4.0
SW													
WSW													
W	.6		.6									1.3	4.5
WNW	.6	1.3										1.9	3.3
NW													
NNW		.6										.6	4.0
VARBL													
CALM												51.6	
	28.4	16.1	3.2	.6								100.0	1.7

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

OCT
MONTH

10
HOURS (L.S.T.)

ALL WEATHER
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.3										2.6	4.3
NNE	.6											.6	2.0
NE	.6			.6								1.3	7.5
ENE	.6		.6	1.9		.6						3.9	13.0
E	1.9	1.3										3.2	2.8
ESE			.6									.6	8.0
SE		1.3	.6	.6								2.6	7.0
SSE	1.3											1.3	2.5
S	5.2	3.2	.6									9.0	3.8
SSW	2.6	3.2										5.8	3.8
SW	1.9	1.9										3.9	3.5
WSW	5.8	7.1										12.9	3.8
W	9.0	7.7										16.8	3.4
WNW	4.5	3.9										8.4	3.5
NW	1.9	.6										2.6	2.8
NNW	1.9	.6										2.6	3.3
VARBL													
CALM												21.9	
	39.4	32.3	2.6	3.2		.6						100.0	3.3

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

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93114
STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

OCT

MONTH

ALL WEATHER

CLASS

13

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

9800

TOTAL NUMBER OF OBSERVATIONS

155

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N					.6							.6	20.0
NNE		.6	.6									1.3	7.5
NE							.6					.6	32.0
ENE		.6										.6	6.0
E													
ESE													
SE													
SSE													
S		1.3	2.6	.6								4.5	7.4
SSW		2.6	2.6									5.2	6.6
SW	.6	3.9	4.5									9.0	6.4
WSW	1.3	12.9	22.6	.6								37.4	7.2
W	.6	11.6	18.1	2.6	.6							33.5	7.6
WNW		1.9	1.3									3.2	6.2
NW	.6			.6								1.3	7.5
NNW		1.3										1.3	5.0
VARBL													
CALM												1.3	
	3.2	36.8	52.3	4.5	1.3		.6					100.0	7.4

DIRNAVOCEANMET SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

ALL WEATHER

CLASS

UCT

MONTH

16

NUMBER (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE			1.3									1.3	10.0
ENE													
E													
ESE													
SE		.6										.6	4.0
SSE		.6										.6	6.0
S		1.3	1.9									3.2	7.8
SSW	1.3	2.6	4.5	1.3								9.7	7.6
SW	.6	5.2	3.2	1.3								10.3	6.6
WSW	.6	20.6	18.1	.6								40.0	6.8
W	2.6	12.3	13.3	1.9								30.3	7.0
WNW		.6	.6	.6								1.9	9.3
NW													
NNW													
VARB													
CALM												1.9	
	5.2	43.4	43.2	5.2	.6							100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

1000

93114
STATION

SANTA ANA, CALIFORNIA

73-77

YEARS

OCT

MONTH

19

HOURE (L.S.T.)

ALL WEATHER

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

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SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6											.6	2.0
NNE													
NE				.6								.6	15.0
ENE	1.3											1.3	2.5
E													
ESE	1.3	1.3										2.6	2.5
SE	.6											.6	1.0
SSE	1.3	.6										1.9	3.0
S	10.3	5.2										15.5	3.0
SSW	7.7	3.2										11.0	3.2
SW	6.5	1.9										6.5	2.9
WSW	7.7	5.2	.6									13.5	3.4
W	1.3	12.3	.6	.6								14.8	5.1
WNW		.6	1.3									1.9	7.0
NW		1.3										1.3	4.0
NNW													
VARB													
CALM												27.7	
	36.8	31.6	2.6	1.3								100.0	2.7

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

OCT

MONTH

ALL WEATHER

CLASS

22

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE	1.9	.6										2.6	2.6
NE	1.3			.6								1.9	5.3
ENE	1.3											1.3	2.0
E	6.3	2.6										9.0	2.8
ESE	1.9	1.9										3.9	3.5
SE	3.2	.6	.6									4.3	3.4
SSE	3.9	.6										4.3	2.6
S	2.6	1.3										3.9	2.8
SSW		1.3										1.3	4.0
SW	1.3											1.3	2.5
WSW	1.3											1.3	2.5
W	1.9	1.9		.6								3.9	4.6
WNW		.6	.6									1.3	7.0
NW	.6											.6	1.0
NNW	.6											.6	3.0
VARBL													
CALM												53.1	
	28.4	11.0	1.3	1.3								100.0	1.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

OCT
MONTH

ALL WEATHER
CLASS

ALL
MOVES (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.4			.1							1.4	4.0
NNE	1.5	.3	.1									1.9	2.7
NE	1.6	.2	.2	.2	.1		.1					2.7	5.4
ENE	2.1	1.2	.2	.2		.1						3.8	4.3
E	2.2	1.0		.1								3.3	3.1
ESE	1.5	1.0	.4									2.8	3.9
SE	1.2	.7	.3	.1								2.3	4.1
SSE	1.4	.8	.1									2.3	3.5
S	3.1	1.7	.6	.1								5.5	3.9
SSW	1.6	1.9	.9	.2								4.5	4.9
SW	1.1	1.8	1.0	.2								4.0	5.2
WSW	2.1	5.9	5.2	.1	.1							13.3	6.1
W	2.1	5.8	4.2	.8	.1							13.0	6.2
WNW	.8	1.1	.5	.1								2.5	5.0
NW	.5	.2		.1								.8	3.7
NNW	.4	.4	.1									.9	3.9
VARBL													
CALM												35.0	
	24.0	24.8	13.6	2.1	.3	.1	.1					100.0	3.3

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA

73-77

NOV

STATION NAME

YEARS

ALL WEATHER

CLASS

MONTH

01

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7										1.3	2.5
NNE	2.7	.7										3.3	2.4
NE	9.3	.7	.7									10.7	3.1
ENE	8.0	1.3	1.3									10.7	3.1
E	3.3	1.3	1.3	.7								6.7	4.9
ESE	2.7	2.0										4.7	3.3
SE	.7	1.3	.7									2.7	4.5
SSE	1.3	.7										2.0	3.3
S	2.0		.7									2.0	1.7
SSW												.7	10.0
SW													
WSW													
W		.7		.7								1.3	9.0
WNW	.7			.7								1.3	8.5
NW	.7											.7	2.0
NNW	1.3											1.3	2.5
VARBL												50.7	
CALM												100.0	1.8
	33.3	9.3	4.7	2.0									

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

NDV

STATION

STATION NAME

YEARS

ALL WEATHER

MONTH

04

HOURS (L.S.T.)

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3											1.3	2.0
NNE	3.3											3.3	1.6
NE	5.3	.7										6.0	2.6
ENE	6.7	2.7										10.0	4.2
E	5.3	3.3	1.3		.7							10.0	3.7
ESE	2.7	2.7	.7									6.0	3.6
SE	2.7	.7	.7									4.0	3.7
SSE	2.0											2.0	2.0
S	2.0	.7										2.7	3.0
SSW	.7											.7	2.0
SW													
WSW												.7	10.0
W			.7										
WNW													
NW													
NNW													
VARBL												53.3	
CALM												100.0	1.6
	32.0	10.7	3.3		.7								

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

NOV
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3											1.3	2.5
NNE	4.0	.7										4.7	2.3
NE	6.7	1.3	.7									8.7	2.8
ENE	4.7	1.3					.7					6.7	3.9
E	6.0	2.7										8.7	2.8
ESE	1.3	1.3										2.7	3.0
SE	2.0	1.3										3.3	2.8
SSE	2.0	2.0										4.0	3.3
S	.7	1.3										2.0	3.3
SSW	.7											.7	2.0
SW													
WSW													
W	.7	.7										.7	3.0
WNW												.7	1.0
NW	.7											.7	2.0
NNW													
VARBL												33.3	
CALM												100.0	1.5
	30.7	12.7	.7				.7						

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

NOV

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

10

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.3										2.7	3.5
NNE	1.3		1.3									2.7	5.0
NE													
ENE	.7	.7		1.3				.7				3.3	12.4
E		1.3	.7									2.0	6.7
ESE	.7	3.3										4.0	3.8
SE	1.3	2.7	1.3									5.3	5.3
SSE	.7	.7	2.0									3.3	6.0
S	2.0	.7	.7	.7								4.0	5.5
SSW	.7	1.3	.7									2.7	4.8
SW	2.7	.7	.7									4.0	3.2
WSW	2.0	.7	.7									3.3	3.6
W	11.3	8.7	2.0	.7								22.7	4.0
WNW	5.3		.7									6.0	2.8
NW	3.3	.7										4.0	2.7
NNW	1.3											1.3	2.0
VARBL													
CALM												28.7	
	34.7	22.7	10.7	2.7				.7				100.0	3.2

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

STATION NAME
SANTA ANA, CALIFORNIA

YEARS
73-77

MONTH
NOV

CLASS

ALL WEATHER

HOURE (L.S.T.)
13

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE				.7								.7	14.0
ENE		.7		2.0	.7							3.3	13.0
E			.7									.7	8.0
ESE													
SE	.7												
SSE	.7	.7	1.3									2.7	6.5
S		.7	.7	.7								2.0	8.0
SSW		1.3	2.0	.7								4.0	7.8
SW		2.0	1.3	.7								4.0	7.8
WSW	3.3	10.0	6.7	1.3								21.3	6.2
W	.7	18.7	18.0	1.3								38.7	6.7
WNW	1.3	5.3	1.3	1.3								9.3	6.0
NW		2.0										2.0	5.0
NNW	.7	2.0	.7	.7								4.0	6.5
VARBL													
CALA												7.3	
	6.7	43.3	32.7	9.3	.7							100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

NOV
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7										1.3	3.5
NNE													
NE		.7										.7	5.0
ENE			1.3	.7								2.0	11.3
E				.7								.7	12.0
ESE													
SE													
SSE	.7	2.0	.7									.7	7.0
S	2.0	5.3	2.0	.7								5.3	7.4
SSW	1.3	3.3	1.3									9.3	5.3
SW	2.0	15.3	13.3	.7								6.0	5.2
WSW	6.0	17.3	12.0	2.0								31.3	6.4
W			2.7									37.3	6.0
WNW			.7									2.7	8.8
NW												.7	8.0
NNW													
VARBL													
CALM												2.0	
	12.7	44.7	36.0	4.7								100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

STATION NAME
SANTA ANA, CALIFORNIA

YEARS
73-77

MONTH
NOV

CLASS
ALL WEATHER

HOURS (L.S.T.)
19

CONDITION

SPEED (KTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	.7		.7								3.3	4.6
NNE	2.7											2.7	1.8
NE	2.7	1.3										4.0	2.7
ENE	5.3	4.0										9.3	2.9
E	3.3	.7	.7									4.7	3.4
ESE	2.7	2.0	.7									4.7	3.1
SE	4.0	.7	.7									5.3	3.3
SSE	2.7	1.3										4.0	2.7
S	2.0	1.3										3.3	2.8
SSW													
SW	1.3	1.3										2.7	3.0
WSW	1.3	2.0	2.0									5.3	5.8
W	2.0	.7		.7								3.3	4.8
WNW													
NW	2.0											2.0	1.3
NNW													
VARBL													
CALM												45.3	
	34.0	16.0	3.3	1.3								100.0	1.8

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

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5702 SURFACE WINDS JAN 78

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93114
STATION

SANTA ANAS CALIFORNIA

STATION NAME

YEARS

73-77

NOV

MOUTH

ALL WEATHER

CLASS

22

MOVES (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3											1.3	1.0
NNE	2.0	1.3	.7									4.0	4.7
NE	4.7	1.3			.7							6.7	4.2
ENE	10.7		1.3									12.0	2.8
E	3.3	2.7										6.0	3.2
ESE	1.3	2.0	.7									4.0	4.7
SE	.7	.7	.7									1.3	4.3
SSE	.7	2.7	.7									4.0	4.7
S	.7	.7	.7									1.3	7.0
SSW	.7	.7		.7								2.0	6.3
SW													
WSW	.7											.7	3.0
W	.7	.7	1.3	.7								3.3	6.4
WNW	.7	.7	.7	.7								2.7	6.8
NW	.7											.7	1.0
NNW													
VARBL													
CALM												50.0	
	28.0	13.3	6.0	2.0	.7							100.0	2.1

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA

73-77

YEARS

NOV

MONTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.3										1.2	2.6
NNE	1.9	.4	.2	.1								2.7	3.3
NIE	3.6	.6	.2	.1	.1							4.5	3.3
ENE	4.2	1.0	.3	.3	.2		.1	.1				6.5	5.1
E	2.9	1.9	.3	.2								5.5	3.8
ESE	1.3	1.5	.2									3.2	3.6
SE	1.2	1.1	.3									2.7	4.0
SSE	1.4	.3	.7									3.0	4.3
S	1.2	.9	.3	.2								2.9	4.9
SSW	.8	1.2	.7	.2								2.9	5.4
SW	.3	.7	.4	.1								1.7	5.4
WSW	1.2	3.4	2.6	.2								7.4	6.0
W	2.3	6.1	4.3	.7								13.7	5.9
WNW	1.3	.3	.7	.4								3.2	5.5
NW	.6	.3	.1									1.0	3.5
NNW	.7	.2	.1	.1								1.2	3.9
VARBL													
CALM												36.6	
	26.5	21.6	12.2	2.7	.2		.1	.1				100.0	3.1

TOTAL NUMBER OF OBSERVATIONS

1200

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA

STATION NAME

73-77

YEARS

DEC

MONTH

ALL WEATHER

CLASS

01

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

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TOTAL NUMBER OF OBSERVATIONS

155

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6		.6									1.3	5.0
NNE	1.3											1.3	2.0
NE	9.0	.6			.6							10.3	3.4
ENE	10.3	1.9										12.3	2.5
E	5.8	1.3	2.6	.6								10.3	4.8
ESE	1.3	1.9		.6								3.9	4.8
SE	3.2	2.6										5.8	3.3
SSE	.6	.6		.6								1.3	10.0
S	1.3	.6	1.3									3.2	5.4
SSW	.6											.6	1.0
SW													
WSW													
W			.6									.6	8.0
WNW	.6											.6	3.0
NW	.6	.6										1.3	4.5
NNW		.6										.6	6.0
VARBL													
CALM												45.5	
	34.8	11.0	5.2	1.9	.6							100.0	2.1

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

73-77

DEC

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

04

CLASS

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.3										2.6	3.8
NNE	2.6		.6									3.2	4.2
NE	7.7	1.3	.6									9.7	2.8
ENE	8.4	1.3	.6	.6	1.3							12.3	4.9
E	4.3	4.3	.6	.6	.6							11.0	3.0
ESE	1.3	1.3										2.6	3.0
SE	1.3	.6			.6							2.6	6.3
SSE	1.3	1.3		.6								3.2	3.0
S	1.9		.6									2.6	3.3
SSW	.6											.6	1.0
SW													
WSW	.6											.6	1.0
W	.6	.6										1.3	2.3
WNW	.6											.6	2.0
NW													
NNW	.6	.6										1.3	2.5
VABBL													
CALM												43.8	
	33.5	12.9	3.2	1.9	2.6							100.0	2.2

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

DEC

MONTH

ALL WEATHER

07

HOURS (L.S.T.)

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.9										2.6	3.8
NNE	3.9	.6										4.5	1.9
NE	7.1	1.3										8.4	2.7
ENE	7.1	3.2		.6		.6						11.6	4.6
E	3.9	3.9	.6	.6								9.0	4.2
ESE	1.3	1.3	1.3									3.9	3.0
SE	.6	.6	.6									1.9	4.3
SSE	1.9	1.9										3.9	2.8
S	.6	2.6										3.2	4.8
SSW	.6											.6	2.0
SW													
WSW	.6											.6	1.0
W													
WRW													
NW													
NNW													
VARBL													
CALM												49.7	
	28.4	17.4	2.6	1.3		.6						100.0	1.9

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93114

STATION NAME
SANTA ANA, CALIFORNIA

YEARS
73-77

MONTH
DEC

CLASS
ALL WEATHER

HOURS (L.S.T.)
10

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6										.6	4.0
NNE	1.9	.6			.6							3.2	5.6
NE	2.6	.6	.6									3.9	3.5
ENE	2.6	.6	.6	1.9	1.3	1.3						7.7	12.6
E	1.9	1.3	.6	.6								3.9	4.8
ESE	1.3	.6										1.9	2.3
SE	3.2	3.2	1.3									7.7	4.4
SSE	1.3	.6	1.9	.6								4.5	6.6
S	3.9	2.6	.6									7.1	4.1
SSW	.6											.6	2.0
SW	1.3	1.3										2.6	3.3
WSW	1.3	.6										1.9	2.3
W	3.2	.6	.6									4.5	3.6
WNW	3.2	1.3										5.2	2.9
NW	.6											.6	3.0
NNW	1.3	.6	.6									2.6	5.0
VARBL													
CALM												41.3	
	30.3	15.5	6.5	3.2	1.9	1.3						100.0	3.1

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

8110

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

DEC
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

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TOTAL NUMBER OF OBSERVATIONS

155

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.6										1.3	3.5
NNE		.6	.6									1.3	6.5
NE			.6	.6								1.3	13.0
ENE			.6	.6	1.3	1.3						3.9	18.2
E		1.3	.6	2.6								4.5	10.9
ESE	.6	.6										1.3	3.0
SE			1.3	.6								1.9	10.0
SSE	.6	.6										1.3	3.5
S	.6	2.6	3.2	.6								7.1	6.6
SSW		3.9	1.9									3.8	6.6
SW	.6	4.5	1.3									6.5	5.2
WSW	2.6	11.0	3.2									16.8	5.0
W	7.7	14.2	6.4	.6								31.0	5.4
WNW	1.3	3.2										4.5	3.6
NW		.6	.6									1.3	7.0
NNW	.6	1.3	.6									2.6	5.8
VARBL													
CALM												7.7	
	15.5	45.2	23.2	5.8	1.3	1.3						100.0	5.9

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION
93114

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

DEC

MONTH

16

HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												1.3	10.0
NNE			.6	.6								2.6	11.8
NE			1.3	1.3								2.6	13.5
ENE	.6		.6	.6			.6					1.9	11.7
E			1.3		.6								
ESE												.6	6.0
SE		.6										1.3	5.0
SSE		1.3										5.2	7.8
S		2.6	1.9	.6								13.5	5.6
SSW	3.2	5.8	4.5									11.0	5.4
SW	1.9	3.2	3.9									21.9	5.2
WSW	1.9	15.5	4.5									33.5	5.2
W	6.5	21.3	5.2	.6								1.9	9.0
WNW			1.9									.6	4.0
NW		.9											
NNW													
VARBL												1.9	
CALM													
	14.2	52.9	25.8	3.9	.6		.6					100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

125

DIRNAVOCEANMET SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

DEC

MONTH

19

HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.5	.0										3.2	2.4
NNE	1.3											1.3	2.0
NE	1.9		.6	.6								3.2	5.6
ENE	4.3		.6	1.9								7.1	5.3
E	9.0	1.3	1.3			.6						12.3	4.0
ESE	3.9		.6									4.3	3.1
SE	3.2	3.9	.6									7.7	4.0
SSE	1.3	1.3	1.3									3.9	5.0
S	5.2											5.2	2.0
SSW	1.9											1.9	2.0
SW	1.3											1.3	2.3
WSW	1.3											1.3	3.0
W													
WNW	.6	1.3	.6									2.6	4.8
NW		.6										.6	4.0
NNW	.6	.6	.6									1.9	5.7
VARBL													
CALM												41.9	
	38.7	9.7	6.5	2.6		.6						100.0	2.3

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

ALL WEATHER
CLASS

DEC
MONTH
22
HOURS (L.S.T.)

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6		.6									.6	8.0
NNE	.6			.6								1.3	9.5
NE	3.2	1.3	.6									5.2	3.1
ENE	3.9	1.3	1.3	1.3	.6	.6						9.0	7.8
E	7.1	2.6		.6								10.3	3.3
ESE	1.3	2.6	1.9									5.8	5.3
SE	1.3	1.3										2.6	3.3
SSE		3.9	.6									4.5	5.6
S	1.3	1.9	.6									3.9	4.7
SSW													
SW	.6											.6	1.0
WSW													
W	1.3											1.3	2.5
WNW	.6											.6	2.0
NW													
NNW													
VARBL													
CALM												54.2	
	21.3	14.8	5.8	2.6	.6	.6						100.0	2.3

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

12

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

DEC
MONTH

ALL WEATHER
CLASS

ALL
MOUSE (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.6	.2									1.5	3.7
NNE	1.5	.2	.2	.2	.1							2.2	4.5
NE	4.0	.6	.6	.3	.1							5.6	4.0
ENE	4.7	1.0	.6	1.0	.6	.5	.1					8.3	6.8
E	4.0	2.0	.9	.7	.2	.1						7.9	5.0
ESE	1.4	1.0	.5	.1								3.0	4.2
SE	1.6	1.0	.5	.1	.1							3.9	4.5
SSE	.8	1.5	.5	.2								3.0	5.2
S	1.9	1.6	1.0	.2								4.7	5.0
SSW	1.0	1.2	.6									3.0	5.1
SW	.7	1.4	.6									2.7	4.8
WSW	1.0	3.4	1.0									5.4	4.8
W	2.4	4.6	1.9	.2								9.0	5.1
WNW	.9	.6	.3									2.0	4.0
NW	.2	.3	.1									.6	4.9
NNW	.4	.3	.2									1.1	5.1
VARBL													
CALM												36.1	
	27.1	22.4	9.8	2.9	1.0	.6	.1					100.0	3.2

TOTAL NUMBER OF OBSERVATIONS

1240

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION
93114

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

ALL WEATHER

CLASS

ALL

NORTH

ALL

HOURS (L.S.T.)

CONDITION

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.6	0.3	0.1	0.1	0.0							1.1	4.0
NNE	0.9	0.3	0.1	0.1	0.0	0.0						1.4	4.2
NE	1.7	0.5	0.2	0.2	0.2	0.1	0.0					2.9	5.4
ENE	2.2	0.7	0.2	0.2	0.1	0.1	0.0	0.0				3.5	5.0
E	2.5	1.1	0.2	0.1	0.0	0.0						4.0	3.6
ESE	1.5	1.1	0.3	0.1								2.9	3.9
SE	1.3	1.4	0.5	0.1	0.0							3.3	4.5
SSE	1.4	1.3	0.4	0.1	0.0							3.2	4.5
S	2.7	2.6	1.1	0.2	0.0		0.0					6.6	4.6
SSW	1.6	2.4	1.8	0.4	0.0							6.2	5.8
SW	0.9	1.8	1.8	0.3								4.9	6.3
WSW	1.7	3.1	4.4	0.6	0.1	0.0						11.9	6.3
W	2.5	5.3	4.5	0.8	0.1							13.2	6.2
WNW	0.8	0.8	0.4	0.1	0.0							2.1	4.9
NW	0.3	0.3	0.1	0.0	0.0	0.0						0.8	5.1
NNW	0.4	0.3	0.1	0.0	0.0							0.7	4.0
VARBL													
CALM												31.2	
	23.0	25.3	16.1	3.5	0.5	0.2	0.1	0.0				100.0	3.7

TOTAL NUMBER OF OBSERVATIONS

14606

DIRNAVOCEANMET SMDS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

ALL
MONTH

INSTRUMENT

CLASS

CONDITION

CIG 200 TO 1400 FT W/VSBY 1/2 MI OR MORE,

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.9	0.4										1.3	2.8
NNE	0.7	0.2	0.1									1.0	3.0
NE	1.4	0.0	0.0	0.0								2.1	3.4
ENE	1.9	1.1										3.0	3.0
E	3.6	1.2	0.2	0.0								5.1	3.0
ESE	2.9	1.1	0.2	0.1								4.3	3.4
SE	1.7	1.9	0.5	0.1								4.2	4.3
SSE	2.4	2.1	0.6	0.1	0.0							5.3	4.2
S	4.6	3.2	0.9	0.2	0.0							9.0	3.9
SSW	3.0	2.1	0.9	0.0								5.1	4.2
SW	1.1	1.4	0.6									3.1	4.7
WSW	2.0	3.4	1.7	0.1	0.0							7.3	5.0
W	3.4	3.7	1.4	0.3								8.9	4.7
WNW	0.8	0.6	0.2	0.1								1.9	4.6
NW	0.6	0.2	0.0									0.8	2.8
NNW	0.4	0.4										0.8	3.5
VARBL													
CALM												35.7	
	31.5	23.0	7.6	1.2	0.2							100.0	2.6

TOTAL NUMBER OF OBSERVATIONS

2118

DIRNAVOCEANMET SMOS

NWSD, Federal Building
Asheville, N. C.

PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than $6/10$ total sky cover and those cases where total sky cover is $6/10$ or more, but not more than $1/2$ of the sky cover is opaque.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 1800															
≥ 1500					91.0										92.6
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500										97.4					98.1
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0					95.4		96.9			98.3					100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0 .
For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.

Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0 . From the table:
Visibility ≥ 3 miles = 95.4%.
Visibility ≥ 2 miles = 96.9%.
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

PART D

ADDITIONAL EXAMPLES

EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%. Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of ≥ 1500 feet with ≥ 3 miles, subtracted from 97.4 read from the table at the intersection of ≥ 500 feet with ≥ 1 mile is equal to 6.4%. Thus, 6.4 percent of the observations meet the criteria: "ceiling ≥ 500 feet with visibility > 1 mile, but < 3 miles; or ceiling ≥ 500 feet, but < 1500 feet with visibility ≥ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

PART D

SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover by tenths, plus mean sky cover, and total number of observations. It is presented in two tables as follows:

1. By month and annual - all hours and all years combined.
2. By month - by standard 3-hour groups.

NOTE: # 1: Sky cover (total cloud amount) was not reported by U. S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

NOTE: # 2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

<u>OKTAS</u>	<u>TENTHS</u>
0	0
1	1
2	3
3	4
4	5
5	6
6	8
7	9
8 (or obscured)	10

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	16.1	61.9	63.9	64.5	67.7	67.7	68.4	69.7	69.7	71.0	71.0	71.0	71.0
≥ 20000	16.1	63.2	65.2	65.8	69.0	69.0	70.3	71.6	71.6	72.9	72.9	72.9	72.9
≥ 18000	16.1	63.2	65.2	65.8	69.0	69.0	70.3	71.6	71.6	72.9	72.9	72.9	72.9
≥ 16000	16.1	63.2	65.2	65.5	69.0	69.0	70.3	71.6	71.6	72.9	72.9	72.9	72.9
≥ 14000	16.1	63.2	65.2	65.8	69.0	69.0	70.3	71.6	71.6	72.9	72.9	72.9	72.9
≥ 12000	16.1	63.9	65.8	66.5	70.3	70.3	71.6	72.9	72.9	74.2	74.2	74.2	74.2
≥ 10000	16.1	64.5	66.5	67.1	71.6	71.6	72.9	74.2	74.2	75.5	75.5	75.5	75.5
≥ 9000	17.4	65.8	67.7	68.4	72.9	72.9	74.2	75.5	75.5	76.8	76.8	76.8	76.8
≥ 8000	17.4	65.8	67.7	68.4	72.9	72.9	74.2	75.5	75.5	76.8	76.8	76.8	76.8
≥ 7000	17.4	68.4	70.3	71.0	75.5	75.5	76.8	78.1	78.1	79.4	79.4	79.4	79.4
≥ 6000	17.4	69.0	71.0	71.6	76.1	76.1	77.4	78.7	78.7	80.0	80.0	80.0	80.0
≥ 5000	17.4	70.3	72.3	72.9	77.4	77.4	78.7	80.0	80.0	81.3	81.3	81.3	81.3
≥ 4500	17.4	71.0	72.9	73.6	78.1	78.1	79.4	80.7	80.7	81.9	81.9	81.9	81.9
≥ 4000	17.4	71.0	72.9	73.6	78.1	78.1	79.4	80.7	80.7	81.9	81.9	81.9	81.9
≥ 3500	17.4	73.6	76.1	76.8	81.3	81.3	82.6	83.9	83.9	85.2	85.2	85.2	85.2
≥ 3000	18.7	75.5	78.1	78.7	83.2	83.2	84.5	85.8	85.8	87.1	87.1	87.1	87.1
≥ 2500	19.4	76.8	79.4	80.0	84.5	84.5	85.8	87.1	87.1	88.4	88.4	88.4	88.4
≥ 2000	20.0	78.1	80.7	81.3	86.5	86.5	87.7	89.0	89.0	90.3	90.3	90.3	90.3
≥ 1800	20.0	78.1	80.7	81.3	86.5	86.5	87.7	89.0	89.0	90.3	90.3	90.3	90.3
≥ 1500	20.0	80.7	83.2	83.9	89.7	89.7	91.0	92.3	92.3	93.6	93.6	93.6	93.6
≥ 1200	20.0	81.3	85.2	85.8	91.6	91.6	92.9	94.2	94.2	95.5	95.5	95.5	95.5
≥ 1000	20.0	81.3	85.2	85.8	91.6	91.6	92.9	94.2	94.2	95.5	95.5	95.5	95.5
≥ 900	20.0	81.3	85.2	85.8	91.6	91.6	92.9	94.2	94.2	95.5	95.5	95.5	95.5
≥ 800	20.0	81.3	85.2	85.8	91.6	91.6	92.9	94.2	94.2	95.5	95.5	95.5	95.5
≥ 700	20.0	81.3	85.2	85.8	92.3	92.3	93.6	94.8	94.8	96.1	96.1	96.1	96.1
≥ 600	20.0	81.3	85.2	85.8	92.3	92.3	93.6	94.8	94.8	96.1	96.1	96.1	96.1
≥ 500	20.0	81.3	85.2	85.8	92.9	92.9	94.2	95.5	95.5	96.8	96.8	96.8	96.8
≥ 400	20.0	81.3	85.2	85.8	92.9	92.9	94.2	95.5	95.5	96.8	96.8	96.8	96.8
≥ 300	20.0	81.3	85.2	85.8	92.9	92.9	94.2	95.5	95.5	96.8	96.8	96.8	96.8
≥ 200	20.0	81.3	85.2	85.8	92.9	92.9	94.2	95.5	95.5	96.8	96.8	96.8	96.8
≥ 100	20.0	81.3	85.2	85.8	92.9	92.9	94.2	95.5	95.5	96.8	96.8	96.8	96.8
≥ 0	20.0	81.3	85.2	85.8	92.9	92.9	94.2	95.5	95.5	96.8	96.8	96.8	96.8

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	18.7	60.7	61.9	63.2	63.9	63.9	64.5	65.8	65.8	65.8	65.8	66.5	67.1	67.1
≥ 20000	16.7	62.6	63.9	65.2	65.8	65.8	66.5	67.7	67.7	67.7	67.7	68.4	69.0	69.0
≥ 18000	18.7	62.6	63.9	65.2	65.8	65.8	66.5	67.7	67.7	67.7	67.7	68.4	69.0	69.0
≥ 16000	18.7	62.6	63.9	65.2	65.8	65.8	66.5	67.7	67.7	67.7	67.7	68.4	69.0	69.0
≥ 14000	19.4	63.9	65.2	66.5	67.1	67.1	67.7	69.0	69.0	69.0	69.0	69.7	70.3	70.3
≥ 12000	20.0	64.5	65.8	67.1	68.4	68.4	69.0	70.3	70.3	70.3	70.3	71.0	71.6	71.6
≥ 10000	20.0	65.2	66.5	67.7	69.0	69.0	70.3	71.6	71.6	71.6	71.6	72.3	72.9	72.9
≥ 9000	20.0	65.2	66.5	67.7	69.0	69.0	70.3	71.6	71.6	71.6	71.6	72.3	72.9	72.9
≥ 8000	20.0	66.5	67.7	69.0	70.3	70.3	71.6	72.9	72.9	72.9	72.9	73.6	74.2	74.2
≥ 7000	20.7	68.4	69.7	71.0	72.3	72.3	73.6	74.8	74.8	74.8	74.8	75.5	76.1	76.1
≥ 6000	20.7	68.4	69.7	71.0	72.3	72.3	73.6	74.8	74.8	74.8	74.8	75.5	76.1	76.1
≥ 5000	20.7	70.3	71.6	72.9	74.2	74.2	76.1	77.4	77.4	77.4	77.4	78.1	78.7	78.7
≥ 4500	20.7	71.0	72.9	74.2	75.5	75.5	77.4	78.7	78.7	78.7	78.7	79.4	80.0	80.0
≥ 4000	21.3	72.9	74.8	76.1	77.4	77.4	79.4	80.7	80.7	80.7	80.7	81.3	81.9	81.9
≥ 3500	21.3	73.6	75.5	76.8	78.1	78.1	80.0	81.3	81.3	81.3	81.3	81.9	82.6	82.6
≥ 3000	21.9	77.4	79.4	80.7	81.9	81.9	84.5	85.8	85.8	85.8	85.8	86.5	87.1	87.1
≥ 2500	21.9	78.1	80.0	81.3	82.6	82.6	85.2	86.5	86.5	86.5	86.5	87.1	87.7	87.7
≥ 2000	21.9	78.7	81.9	83.2	84.5	84.5	87.1	88.4	88.4	88.4	88.4	89.0	89.7	89.7
≥ 1800	21.9	78.7	81.9	83.2	84.5	84.5	87.1	88.4	88.4	88.4	88.4	89.0	89.7	89.7
≥ 1500	21.9	81.9	85.2	87.1	88.4	88.4	91.0	92.3	92.3	92.3	92.3	92.9	93.6	93.6
≥ 1200	21.9	81.9	85.8	87.7	89.0	89.0	91.6	92.9	92.9	92.9	92.9	93.6	94.2	94.2
≥ 1000	21.9	81.9	85.8	87.7	89.7	89.7	92.3	93.6	93.6	93.6	93.6	94.2	94.8	94.8
≥ 900	21.9	81.9	85.8	87.7	89.7	89.7	92.3	93.6	93.6	93.6	93.6	94.2	94.8	94.8
≥ 800	21.9	81.9	85.8	87.7	89.7	89.7	92.3	93.6	93.6	93.6	93.6	94.2	94.8	94.8
≥ 700	21.9	81.9	85.8	87.7	89.7	89.7	92.3	93.6	93.6	93.6	93.6	94.2	94.8	94.8
≥ 600	21.9	81.9	85.8	87.7	89.7	89.7	92.3	93.6	93.6	93.6	93.6	94.2	94.8	94.8
≥ 500	21.9	81.9	85.8	87.7	90.3	90.3	92.9	94.2	94.2	94.2	94.2	94.8	95.5	95.5
≥ 400	21.9	81.9	85.8	87.7	91.0	91.0	93.6	94.8	94.8	94.8	94.8	95.5	96.1	96.1
≥ 300	21.9	81.9	85.8	87.7	91.0	91.0	93.6	94.8	94.8	94.8	94.8	95.5	96.1	96.1
≥ 200	21.9	81.9	85.8	87.7	91.0	91.0	93.6	94.8	94.8	94.8	94.8	95.5	96.1	96.1
≥ 100	21.9	81.9	85.8	87.7	91.0	91.0	93.6	94.8	94.8	94.8	94.8	95.5	96.1	96.1
≥ 0	21.9	81.9	85.8	87.7	91.0	91.0	93.6	94.8	94.8	94.8	94.8	95.5	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	31.6	60.0	61.9	64.5	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	66.5	67.7
≥ 20000	31.6	61.9	65.2	67.7	68.4	69.0	69.7	69.7	69.7	69.7	69.7	69.7	70.3	71.6
18000	31.6	61.9	65.2	67.7	68.4	69.0	69.7	69.7	69.7	69.7	69.7	69.7	70.3	71.6
16000	31.6	61.9	65.2	67.7	68.4	69.0	69.7	69.7	69.7	69.7	69.7	69.7	70.3	71.6
14000	31.6	61.9	65.2	67.7	68.4	69.0	69.7	69.7	69.7	69.7	69.7	69.7	70.3	71.6
12000	32.3	62.6	65.8	69.0	70.3	71.0	71.6	71.6	71.6	71.6	71.6	71.6	72.3	73.6
10000	32.3	63.9	67.1	70.3	71.6	72.3	73.6	73.6	73.6	73.6	73.6	73.6	74.2	75.5
≥ 9000	32.9	64.5	67.7	71.0	72.3	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.8	76.1
8000	32.9	65.2	68.4	71.6	72.9	73.6	74.8	74.8	74.8	74.8	74.8	74.8	75.5	76.8
7000	33.6	65.8	69.0	72.3	73.6	74.2	75.5	75.5	75.5	75.5	75.5	75.5	76.1	77.4
6000	33.6	65.8	69.0	72.3	73.6	74.2	75.5	75.5	75.5	75.5	75.5	75.5	76.1	77.4
5000	33.6	65.8	69.0	72.3	73.6	74.2	75.5	75.5	75.5	75.5	75.5	75.5	76.1	77.4
4500	33.6	65.8	69.0	72.3	73.6	74.2	75.5	75.5	75.5	75.5	75.5	75.5	76.1	77.4
4000	33.6	65.8	69.0	72.3	73.6	74.2	75.5	75.5	75.5	75.5	75.5	75.5	76.1	77.4
3500	35.5	69.7	73.6	77.4	78.7	80.0	81.3	81.3	81.3	81.3	81.3	81.3	82.6	83.9
3000	36.1	71.0	74.8	78.7	80.0	81.3	82.6	82.6	82.6	82.6	82.6	82.6	83.9	85.2
2500	36.8	72.3	76.1	80.0	81.3	82.6	83.9	83.9	83.9	83.9	83.9	83.9	85.2	86.5
2000	36.8	74.2	78.1	81.9	83.2	84.5	85.8	85.8	85.8	85.8	85.8	85.8	87.1	88.4
1800	36.8	74.8	78.7	82.6	83.9	85.2	86.5	86.5	86.5	86.5	86.5	86.5	87.1	88.4
1500	36.8	76.1	80.0	83.9	85.2	86.5	88.4	88.4	88.4	88.4	88.4	88.4	89.7	91.0
1200	36.8	76.8	80.7	85.2	86.5	87.7	89.7	89.7	89.7	89.7	89.7	89.7	91.0	92.3
1000	36.8	76.8	81.3	85.8	87.1	88.4	90.3	90.3	90.3	90.3	90.3	90.3	91.6	93.6
900	36.8	76.8	81.3	85.8	87.1	88.4	90.3	90.3	90.3	90.3	90.3	90.3	91.6	93.6
800	36.8	76.8	81.3	85.8	87.1	88.4	90.3	90.3	90.3	90.3	90.3	90.3	91.6	93.6
700	36.8	76.8	81.3	85.8	87.1	88.4	90.3	90.3	90.3	90.3	90.3	90.3	91.6	93.6
600	36.8	77.4	81.9	86.5	87.7	89.0	91.0	91.0	91.0	91.0	91.0	91.0	92.3	94.8
500	36.8	77.4	81.9	86.5	87.7	89.0	91.0	91.0	91.0	91.0	91.0	91.0	92.3	94.8
400	36.8	77.4	81.9	86.5	87.7	89.0	91.0	91.0	91.0	91.0	91.0	91.0	92.3	94.8
300	36.8	77.4	81.9	86.5	87.7	89.0	91.0	91.0	91.0	91.0	91.0	91.0	92.3	94.8
200	36.8	77.4	81.9	86.5	87.7	89.0	91.0	91.0	91.0	91.0	91.0	91.0	92.3	94.8
100	36.8	77.4	81.9	86.5	87.7	89.0	91.0	91.0	91.0	91.0	91.0	91.0	92.3	94.8
0	36.8	77.4	81.9	86.5	87.7	89.0	91.0	91.0	91.0	91.0	91.0	91.0	92.3	94.8

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEAR

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	26.5	52.9	57.4	59.4	61.3	61.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 20000	27.1	57.4	61.9	63.9	65.8	66.5	69.7	70.3	70.3	70.3	70.3	70.3	70.3
≥ 18000	27.7	58.1	62.6	64.5	66.5	67.1	70.3	71.0	71.0	71.0	71.0	71.0	71.0
≥ 16000	27.7	58.7	63.2	65.2	67.1	67.7	71.0	71.6	71.6	71.6	71.6	71.6	71.6
≥ 14000	29.0	60.0	64.5	66.5	68.4	69.0	72.9	73.6	73.6	73.6	73.6	73.6	73.6
≥ 12000	29.7	61.9	66.5	68.4	70.3	71.0	74.8	75.5	75.5	75.5	76.1	76.1	76.1
≥ 10000	29.7	62.6	67.1	69.0	71.0	71.6	75.5	76.1	76.1	76.1	76.8	76.8	76.8
≥ 9000	29.7	62.6	67.1	69.0	71.0	71.6	75.5	76.1	76.1	76.1	76.8	76.8	76.8
≥ 8000	30.3	63.2	67.7	69.7	71.6	72.3	76.8	77.4	77.4	77.4	77.4	77.4	77.4
≥ 7000	30.3	63.2	67.7	69.7	71.6	72.3	76.8	77.4	77.4	77.4	78.1	78.1	78.1
≥ 6000	31.6	64.5	69.0	71.0	72.9	73.6	78.1	78.7	78.7	78.7	79.4	79.4	79.4
≥ 5000	31.6	64.5	69.0	71.0	72.9	73.6	78.1	78.7	78.7	78.7	79.4	79.4	79.4
≥ 4500	31.6	65.2	69.7	71.6	73.6	74.2	78.7	79.4	79.4	79.4	80.0	80.0	80.0
≥ 4000	31.6	65.8	70.3	72.3	74.2	74.8	79.4	80.0	80.0	80.0	80.7	80.7	80.7
≥ 3500	32.3	67.7	72.9	74.8	76.8	77.4	81.9	82.6	82.6	82.6	83.2	83.2	83.2
≥ 3000	33.6	70.3	75.5	77.4	79.4	80.0	84.5	85.2	85.2	85.2	85.8	85.8	85.8
≥ 2500	33.6	72.9	78.1	80.0	81.9	82.6	87.1	87.7	87.7	87.7	88.4	88.4	88.4
≥ 2000	34.8	76.1	82.6	84.5	86.5	87.1	91.6	92.3	92.3	92.3	92.9	92.9	92.9
≥ 1800	34.8	76.1	82.6	84.5	86.5	87.1	91.6	92.3	92.3	92.3	92.9	92.9	92.9
≥ 1500	35.5	78.1	84.5	86.5	88.4	89.0	93.6	94.8	94.8	94.8	95.5	95.5	95.5
≥ 1200	35.5	78.1	84.5	86.5	88.4	89.0	93.6	94.8	94.8	94.8	95.5	95.5	95.5
≥ 1000	35.5	78.1	84.5	86.5	88.4	89.0	93.6	94.8	94.8	94.8	95.5	95.5	95.5
≥ 900	35.5	78.1	84.5	86.5	88.4	89.0	93.6	94.8	94.8	94.8	95.5	95.5	95.5
≥ 800	35.5	78.1	84.5	86.5	88.4	89.0	93.6	94.8	94.8	94.8	95.5	95.5	95.5
≥ 700	35.5	78.1	84.5	86.5	88.4	89.0	93.6	94.8	94.8	94.8	95.5	95.5	95.5
≥ 600	35.5	78.1	84.5	86.5	88.4	89.0	93.6	94.8	94.8	94.8	95.5	95.5	95.5
≥ 500	35.5	78.1	84.5	86.5	88.4	89.0	93.6	94.8	94.8	94.8	95.5	95.5	95.5
≥ 400	35.5	78.1	84.5	86.5	88.4	89.0	93.6	94.8	94.8	94.8	95.5	95.5	95.5
≥ 300	35.5	78.1	84.5	86.5	88.4	89.0	93.6	94.8	94.8	94.8	95.5	95.5	95.5
≥ 200	35.5	78.1	84.5	86.5	88.4	89.0	93.6	94.8	94.8	94.8	95.5	95.5	95.5
≥ 100	35.5	78.1	84.5	86.5	88.4	89.0	93.6	94.8	94.8	94.8	95.5	95.5	95.5
0	35.5	78.1	84.5	86.5	88.4	89.0	93.6	94.8	94.8	94.8	95.5	95.5	95.5

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	23.9	50.3	51.6	54.8	59.4	59.4	61.3	62.6	62.6	63.2	63.2	63.2	63.2	63.2	63.2
≥ 20000	25.2	55.5	56.8	60.0	65.2	65.2	67.1	68.4	68.4	69.7	69.7	69.7	69.7	69.7	69.7
≥ 18000	25.8	56.8	58.1	61.3	66.5	66.5	68.4	69.7	69.7	71.0	71.0	71.0	71.0	71.0	71.0
≥ 16000	25.8	56.8	58.1	61.3	66.5	66.5	68.4	69.7	69.7	71.0	71.0	71.0	71.0	71.0	71.0
≥ 14000	26.5	58.1	59.4	62.6	67.7	67.7	70.3	71.6	71.6	72.9	72.9	72.9	72.9	72.9	72.9
≥ 12000	26.5	58.7	60.0	63.2	68.4	68.4	71.0	72.3	72.3	73.6	73.6	73.6	73.6	73.6	73.6
≥ 10000	27.7	61.9	63.2	66.5	71.6	71.6	74.2	75.5	75.5	76.8	76.8	76.8	76.8	76.8	76.8
≥ 9000	27.7	61.9	63.2	66.5	71.6	71.6	74.2	75.5	75.5	76.8	76.8	76.8	76.8	76.8	76.8
≥ 8000	27.7	62.6	63.9	67.1	72.3	72.3	74.8	76.1	76.1	77.4	77.4	77.4	77.4	77.4	77.4
≥ 7000	27.7	62.6	63.9	67.1	72.3	72.3	74.8	76.1	76.1	77.4	77.4	77.4	77.4	77.4	77.4
≥ 6000	28.4	63.2	64.5	67.7	73.6	73.6	76.1	77.4	77.4	78.7	78.7	78.7	78.7	78.7	78.7
≥ 5000	29.7	64.5	65.8	69.0	74.8	74.8	77.4	78.7	78.7	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4500	29.7	64.5	65.8	69.0	74.8	74.8	77.4	78.7	78.7	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4000	30.3	65.8	67.1	70.3	75.5	75.5	78.1	79.4	79.4	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3500	31.6	69.0	70.3	73.6	79.4	79.4	81.9	83.2	83.2	84.5	84.5	84.5	84.5	84.5	84.5
≥ 3000	32.9	72.9	74.2	77.4	83.9	83.9	86.5	87.7	87.7	89.0	89.0	89.0	89.0	89.0	89.0
≥ 2500	34.2	74.8	76.1	79.4	85.8	85.8	88.4	90.3	90.3	91.6	91.6	91.6	91.6	91.6	91.6
≥ 2000	34.8	77.4	79.4	82.6	89.0	89.0	91.6	93.6	93.6	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1800	34.8	77.4	79.4	82.6	89.0	89.0	91.6	93.6	93.6	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1500	35.5	79.4	81.9	85.2	91.6	91.6	94.2	96.1	96.1	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1200	35.5	79.4	81.9	85.2	91.6	91.6	94.2	96.1	96.1	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1000	35.5	79.4	81.9	85.2	91.6	91.6	94.2	96.1	96.1	97.4	97.4	97.4	97.4	97.4	97.4
≥ 900	35.5	79.4	81.9	85.2	91.6	91.6	94.2	96.1	96.1	97.4	97.4	97.4	97.4	97.4	97.4
≥ 800	35.5	79.4	81.9	85.2	91.6	91.6	94.2	96.1	96.1	97.4	97.4	97.4	97.4	97.4	97.4
≥ 700	35.5	79.4	81.9	85.2	91.6	91.6	94.2	96.1	96.1	97.4	97.4	97.4	97.4	97.4	97.4
≥ 600	35.5	79.4	81.9	85.2	91.6	91.6	94.2	96.1	96.1	97.4	97.4	97.4	97.4	97.4	97.4
≥ 500	35.5	79.4	81.9	85.2	91.6	91.6	94.2	96.1	96.1	97.4	97.4	97.4	97.4	97.4	97.4
≥ 400	35.5	79.4	81.9	85.2	91.6	91.6	94.2	96.1	96.1	97.4	97.4	97.4	97.4	97.4	97.4
≥ 300	35.5	79.4	81.9	85.2	91.6	91.6	94.2	96.1	96.1	97.4	97.4	97.4	97.4	97.4	97.4
≥ 200	35.5	79.4	81.9	85.2	91.6	91.6	94.2	96.1	96.1	97.4	97.4	97.4	97.4	97.4	97.4
≥ 100	35.5	79.4	81.9	85.2	91.6	91.6	94.2	96.1	96.1	97.4	97.4	97.4	97.4	97.4	97.4
≥ 0	35.5	79.4	81.9	85.2	91.6	91.6	94.2	96.1	96.1	97.4	97.4	97.4	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEAR

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING	29.0	52.3	56.8	61.3	65.2	65.8	67.1	67.1	67.1	67.7	67.7	67.7	67.7	67.7
≥ 20000	31.0	58.1	62.6	67.1	71.0	71.6	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2
≥ 18000	31.0	58.7	63.2	67.7	71.6	72.3	74.2	74.2	74.2	74.8	74.8	74.8	74.8	74.8
≥ 16000	31.0	58.7	63.2	67.7	71.6	72.3	74.2	74.2	74.2	74.8	74.8	74.8	74.8	74.8
≥ 14000	31.6	60.7	65.2	69.7	73.6	74.2	76.1	76.1	76.1	76.8	76.8	76.8	76.8	76.8
≥ 12000	32.9	63.2	67.7	72.3	76.1	76.8	78.7	78.7	78.7	79.4	79.4	79.4	79.4	79.4
≥ 10000	32.9	64.5	69.0	74.2	78.1	78.7	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3
≥ 9000	32.9	64.5	69.0	74.2	78.1	78.7	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3
≥ 8000	33.6	65.8	70.3	75.5	79.4	80.7	82.6	82.6	82.6	83.2	83.2	83.2	83.2	83.2
≥ 7000	33.6	65.8	70.3	75.5	79.4	80.7	82.6	82.6	82.6	83.2	83.2	83.2	83.2	83.2
≥ 6000	33.6	67.1	71.6	77.4	81.3	82.6	84.5	84.5	84.5	85.2	85.2	85.2	85.2	85.2
≥ 5000	33.6	67.1	71.6	77.4	81.3	82.6	84.5	84.5	84.5	85.2	85.2	85.2	85.2	85.2
≥ 4500	33.6	67.1	71.6	77.4	81.3	82.6	84.5	84.5	84.5	85.2	85.2	85.2	85.2	85.2
≥ 4000	33.6	67.7	72.3	78.1	81.9	83.2	85.2	85.2	85.2	85.8	85.8	85.8	85.8	85.8
≥ 3500	34.8	70.3	74.8	81.3	85.2	86.5	88.4	88.4	88.4	89.0	89.0	89.0	89.0	89.0
≥ 3000	36.1	73.6	78.1	84.5	88.4	89.7	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3
≥ 2500	36.1	76.1	80.7	87.1	91.0	92.3	94.2	94.2	94.2	94.8	94.8	94.8	94.8	94.8
≥ 2000	36.1	78.1	82.6	89.0	92.9	94.2	96.1	96.1	96.1	96.8	96.8	96.8	96.8	96.8
≥ 1800	36.1	78.1	82.6	89.0	92.9	94.2	96.1	96.1	96.1	96.8	96.8	96.8	96.8	96.8
≥ 1500	36.1	78.7	83.2	89.7	93.6	94.8	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4
≥ 1200	36.1	78.7	83.2	89.7	93.6	94.8	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4
≥ 1000	36.1	79.4	83.9	90.3	94.2	95.5	97.4	97.4	97.4	98.1	98.1	98.1	98.1	98.1
≥ 900	36.1	79.4	83.9	90.3	94.2	95.5	97.4	97.4	97.4	98.1	98.1	98.1	98.1	98.1
≥ 800	36.1	79.4	84.5	91.0	94.8	96.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7
≥ 700	36.1	79.4	84.5	91.0	94.8	96.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7
≥ 600	36.1	79.4	84.5	91.0	94.8	96.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7
≥ 500	36.1	79.4	84.5	91.0	94.8	96.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7
≥ 400	36.1	79.4	84.5	91.0	94.8	96.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7
≥ 300	36.1	79.4	84.5	91.0	94.8	96.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7
≥ 200	36.1	79.4	84.5	91.0	94.8	96.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7
≥ 100	36.1	79.4	84.5	91.0	94.8	96.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7
0	36.1	79.4	84.5	91.0	94.8	96.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7

155

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JAN
MONTH

19
HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ ¾	≥ ½
NO CEILING	19.4	64.5	66.5	67.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3
≥ 20000	19.4	67.1	69.0	71.0	72.9	73.6	73.6	73.6	73.6	73.6	73.6
≥ 18000	19.4	67.1	69.0	71.0	72.9	73.6	73.6	73.6	73.6	73.6	73.6
≥ 16000	19.4	67.1	69.0	71.0	72.9	73.6	73.6	73.6	73.6	73.6	73.6
≥ 14000	19.4	68.4	70.3	72.3	74.2	74.8	74.8	74.8	74.8	74.8	74.8
≥ 12000	19.4	69.7	71.6	73.6	75.5	76.1	76.1	76.1	76.1	76.1	76.1
≥ 10000	20.0	70.3	72.3	74.2	76.1	76.8	76.8	76.8	76.8	76.8	76.8
≥ 9000	20.0	70.3	72.3	74.2	76.1	76.8	76.8	76.8	76.8	76.8	76.8
≥ 8000	20.0	72.3	74.2	76.1	78.1	78.7	78.7	78.7	78.7	78.7	78.7
≥ 7000	20.0	73.6	75.5	77.4	79.4	80.0	80.0	80.0	80.0	80.0	80.0
≥ 6000	20.0	73.6	75.5	77.4	79.4	80.0	80.0	80.0	80.0	80.0	80.0
≥ 5000	20.0	73.6	75.5	77.4	79.4	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4500	20.7	75.5	77.4	79.4	81.3	81.9	81.9	81.9	81.9	81.9	81.9
≥ 4000	21.3	76.8	78.7	81.3	83.2	83.9	83.9	83.9	83.9	83.9	83.9
≥ 3500	21.3	77.4	80.0	82.6	84.5	85.2	85.2	85.2	85.2	85.2	85.2
≥ 3000	21.3	78.7	81.3	83.9	86.5	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2500	21.3	80.7	83.2	85.8	88.4	89.0	89.7	89.7	89.7	89.7	89.7
≥ 2000	21.3	82.6	85.2	87.7	90.3	91.0	91.6	91.6	91.6	91.6	91.6
≥ 1800	21.3	82.6	85.2	87.7	90.3	91.6	92.3	92.3	92.3	92.3	92.3
≥ 1500	21.3	84.5	87.1	90.3	92.9	93.6	94.2	94.2	94.2	94.2	94.2
≥ 1200	21.3	85.8	88.4	91.0	94.2	94.8	95.5	95.5	95.5	95.5	95.5
≥ 1000	21.3	86.5	89.0	92.3	94.8	95.5	96.1	96.1	96.1	96.1	96.1
≥ 900	21.3	86.5	89.0	92.3	95.5	96.1	96.8	96.8	96.8	96.8	96.8
≥ 800	21.3	86.5	89.0	92.3	95.5	96.1	96.8	96.8	96.8	96.8	96.8
≥ 700	21.3	86.5	89.0	92.3	95.5	96.1	96.8	96.8	96.8	96.8	96.8
≥ 600	21.3	86.5	89.0	92.3	95.5	96.1	96.8	96.8	96.8	96.8	96.8
≥ 500	21.3	86.5	89.0	92.3	95.5	96.1	96.8	96.8	96.8	96.8	96.8
≥ 400	21.3	86.5	89.0	92.3	95.5	96.1	96.8	96.8	96.8	96.8	96.8
≥ 300	21.3	86.5	89.0	92.3	95.5	96.1	96.8	96.8	96.8	96.8	96.8
≥ 200	21.3	86.5	89.0	92.3	95.5	96.1	96.8	96.8	96.8	96.8	96.8
≥ 100	21.3	86.5	89.0	92.3	95.5	96.1	96.8	96.8	96.8	96.8	96.8
0	21.3	86.5	89.0	92.3	95.5	96.1	96.8	96.8	96.8	96.8	96.8

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

93114
STATION

5703 CEILING VERSUS VISIBILITY JAN 78

8888

8888

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
93114
SANTA ANA, CALIFORNIA
73-77
JAN
MONTH
22
HOURS (L S T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	15.5	63.9	65.8	67.1	70.3	71.0	72.3	72.3	72.3	72.3	72.9	72.9	72.9	72.9
≥ 20000	15.5	64.5	66.5	68.4	71.6	72.3	73.6	73.6	73.6	73.6	74.8	74.8	74.8	74.8
≥ 18000	15.5	65.2	67.1	69.0	72.3	72.9	74.2	74.2	74.2	74.2	75.5	75.5	75.5	75.5
≥ 16000	15.5	65.2	67.1	69.0	72.3	72.9	74.2	74.2	74.2	74.2	75.5	75.5	75.5	75.5
≥ 14000	15.5	65.2	67.1	69.0	72.3	72.9	74.2	74.2	74.2	74.2	75.5	75.5	75.5	75.5
≥ 12000	15.5	65.8	67.7	69.7	72.9	73.6	74.8	74.8	74.8	74.8	76.1	76.1	76.1	76.1
≥ 10000	15.5	66.5	68.4	70.3	73.6	74.2	75.5	75.5	75.5	75.5	76.8	76.8	76.8	76.8
≥ 9000	15.5	66.5	68.4	70.3	73.6	74.2	75.5	75.5	75.5	75.5	76.8	76.8	76.8	76.8
≥ 8000	15.5	66.5	68.4	71.0	74.2	74.8	76.1	76.1	76.1	76.1	77.4	77.4	77.4	77.4
≥ 7000	15.5	68.4	70.3	72.9	76.1	76.8	78.1	78.1	78.1	78.1	79.4	79.4	79.4	79.4
≥ 6000	15.5	69.0	71.0	73.6	76.8	77.4	78.7	78.7	78.7	78.7	80.0	80.0	80.0	80.0
≥ 5000	15.5	71.0	72.9	75.5	78.7	79.4	80.7	80.7	80.7	80.7	81.9	81.9	81.9	81.9
≥ 4500	15.5	71.6	73.6	76.1	79.4	80.0	81.3	81.3	81.3	81.3	82.6	82.6	82.6	82.6
≥ 4000	16.1	72.9	74.8	77.4	80.7	81.3	82.6	82.6	82.6	82.6	83.9	83.9	83.9	83.9
≥ 3500	16.1	72.9	75.5	78.1	81.3	81.9	83.2	83.2	83.2	83.2	84.5	84.5	84.5	84.5
≥ 3000	16.8	74.8	77.4	80.0	83.2	83.9	85.2	85.2	85.2	85.2	86.5	86.5	86.5	86.5
≥ 2500	17.4	76.1	78.7	81.3	84.5	85.2	86.5	86.5	86.5	86.5	87.7	87.7	87.7	87.7
≥ 2000	18.1	78.7	81.3	83.9	87.7	88.4	89.7	89.7	89.7	89.7	91.0	91.0	91.0	91.0
≥ 1800	18.1	78.7	81.3	83.9	87.7	88.4	89.7	89.7	89.7	89.7	91.0	91.0	91.0	91.0
≥ 1500	18.1	80.7	83.9	86.5	90.3	91.0	92.3	92.3	92.3	92.3	93.6	93.6	93.6	93.6
≥ 1200	18.7	82.6	86.5	89.0	92.9	93.6	94.8	94.8	94.8	94.8	96.1	96.1	96.1	96.1
≥ 1000	18.7	83.2	87.1	89.7	93.6	94.2	96.1	96.1	96.1	96.1	97.4	97.4	97.4	97.4
≥ 900	18.7	83.2	87.1	89.7	93.6	94.2	96.1	96.1	96.1	96.1	97.4	97.4	97.4	97.4
≥ 800	18.7	83.2	87.1	89.7	93.6	94.2	96.1	96.1	96.1	96.1	97.4	97.4	97.4	97.4
≥ 700	18.7	83.2	87.1	89.7	93.6	94.2	96.1	96.1	96.1	96.1	97.4	97.4	97.4	97.4
≥ 600	18.7	83.2	87.1	89.7	93.6	94.2	96.1	96.1	96.1	96.1	97.4	97.4	97.4	97.4
≥ 500	18.7	83.2	87.1	89.7	93.6	94.2	96.1	96.1	96.1	96.1	97.4	97.4	97.4	97.4
≥ 400	18.7	83.2	87.1	89.7	93.6	94.2	96.1	96.1	96.1	96.1	97.4	97.4	97.4	97.4
≥ 300	18.7	83.2	87.1	89.7	93.6	94.2	96.1	96.1	96.1	96.1	97.4	97.4	97.4	97.4
≥ 200	18.7	83.2	87.1	89.7	93.6	94.2	96.1	96.1	96.1	96.1	97.4	97.4	97.4	97.4
≥ 100	18.7	83.2	87.1	89.7	93.6	94.2	96.1	96.1	96.1	96.1	97.4	97.4	97.4	97.4
≥ 0	18.7	83.2	87.1	89.7	93.6	94.2	96.1	96.1	96.1	96.1	97.4	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ 5/16
NO CEILING	22.6	58.3	60.7	62.8	65.3	65.7	66.6	67.3	67.3	67.7	67.8
≥ 20000	23.1	61.3	63.9	66.1	68.7	69.1	70.2	71.1	71.5	71.6	71.9
≥ 18000	23.2	61.7	64.3	66.5	69.1	69.5	70.7	71.5	71.9	72.0	72.2
≥ 16000	23.2	61.8	64.4	66.6	69.2	69.6	70.7	71.5	71.9	72.1	72.3
≥ 14000	23.6	62.7	65.2	67.5	70.1	70.5	71.8	72.6	73.0	73.2	73.4
≥ 12000	24.0	63.8	66.4	68.7	71.5	71.9	73.2	74.0	74.4	74.7	75.1
≥ 10000	24.3	64.9	67.5	69.9	72.8	73.2	74.7	75.5	75.9	76.1	76.4
≥ 9000	24.5	65.2	67.7	70.2	73.1	73.5	74.9	75.7	76.1	76.4	76.5
≥ 8000	24.7	66.0	68.6	71.1	74.0	74.4	75.9	76.7	77.1	77.3	77.5
≥ 7000	24.8	67.0	69.6	72.1	75.1	75.6	77.1	77.9	78.3	78.6	78.7
≥ 6000	25.1	67.6	70.2	72.7	75.7	76.2	77.7	78.6	79.0	79.2	79.4
≥ 5000	25.2	68.4	71.0	73.6	76.5	77.1	78.7	79.5	79.9	80.2	80.3
≥ 4500	25.3	69.0	71.6	74.2	77.2	77.7	79.4	80.2	80.6	80.8	81.0
≥ 4000	25.7	69.9	72.6	75.3	78.3	78.9	80.5	81.3	81.8	82.0	82.2
≥ 3500	26.3	71.8	74.8	77.7	80.7	81.2	82.8	83.6	84.1	84.4	84.5
≥ 3000	27.2	74.3	77.3	80.2	83.3	83.9	85.7	86.5	86.9	87.2	87.3
≥ 2500	27.6	76.0	79.0	81.9	85.0	85.6	87.3	88.2	88.7	89.0	89.1
≥ 2000	28.0	78.0	81.5	84.4	87.6	88.2	89.9	90.8	91.3	91.5	91.7
≥ 1800	28.0	78.1	81.5	84.4	87.7	88.3	90.1	91.0	91.5	91.7	91.9
≥ 1600	28.2	80.0	83.6	86.6	90.0	90.6	92.4	93.4	93.9	94.1	94.4
≥ 1400	28.2	80.6	84.5	87.6	91.0	91.5	93.4	94.4	94.8	95.1	95.3
≥ 1200	28.2	80.8	84.8	87.9	91.4	91.9	93.9	94.8	95.4	95.7	95.9
≥ 1000	28.2	80.8	84.9	88.0	91.6	92.0	94.0	94.9	95.5	95.7	96.0
≥ 900	28.2	80.8	84.9	88.0	91.6	92.3	94.2	95.3	95.8	96.1	96.4
≥ 800	28.2	80.8	84.9	88.0	91.6	92.3	94.2	95.3	95.8	96.1	96.4
≥ 700	28.2	80.9	85.0	88.1	91.7	92.3	94.3	95.4	95.9	96.2	96.5
≥ 600	28.2	80.9	85.0	88.1	91.9	92.5	94.4	95.6	96.1	96.3	96.5
≥ 500	28.2	80.9	85.0	88.1	91.9	92.6	94.6	95.7	96.4	96.7	97.1
≥ 400	28.2	80.9	85.0	88.1	91.9	92.6	94.6	95.7	96.4	96.7	97.1
≥ 300	28.2	80.9	85.0	88.1	91.9	92.6	94.6	95.7	96.4	96.7	97.1
≥ 200	28.2	80.9	85.0	88.1	91.9	92.6	94.6	95.7	96.4	96.7	97.1
≥ 100	28.2	80.9	85.0	88.1	91.9	92.6	94.6	95.7	96.4	96.7	97.1
0	28.2	80.9	85.0	88.1	91.9	92.6	94.6	95.7	96.4	96.7	97.1

TOTAL NUMBER OF OBSERVATIONS 1240

DIRNAVOCEANMET SMOS

2

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA

73-77

YEARS

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16	≥ ¼	≥ 0
NO CEILING	15.6	58.9	62.4	62.4	65.3	66.7	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 20000	17.0	61.7	65.3	65.3	68.1	69.5	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 18000	17.0	61.7	65.3	65.3	68.1	69.5	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 16000	17.0	61.7	65.3	65.3	68.1	69.5	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 14000	17.0	61.7	66.7	66.7	69.5	70.9	72.3	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 12000	17.0	61.7	66.7	66.7	69.5	70.9	72.3	73.1	73.1	73.1	73.1	73.1	73.1	73.1
10000	17.0	62.4	67.4	67.4	70.2	71.6	73.1	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 9000	17.7	63.1	68.1	68.1	70.9	72.3	73.8	74.5	74.5	74.5	74.5	74.5	74.5	74.5
8000	17.7	66.0	70.9	70.9	73.8	75.2	76.6	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 7000	17.7	66.0	70.9	70.9	73.8	75.2	76.6	77.3	77.3	77.3	77.3	77.3	77.3	77.3
6000	18.4	68.1	73.1	73.1	75.9	77.3	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 5000	18.4	68.1	73.1	73.1	75.9	77.3	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4
4500	18.4	68.1	73.1	73.1	75.9	77.3	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4
4000	18.4	68.1	73.1	73.1	75.9	77.3	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4
3500	18.4	69.5	74.5	74.5	77.3	78.7	80.1	80.9	80.9	80.9	80.9	80.9	80.9	80.9
3000	18.4	70.9	75.9	75.9	79.4	80.9	82.3	83.0	83.0	83.0	83.0	83.0	83.0	83.0
2500	18.4	72.3	78.7	78.7	82.3	83.7	85.1	85.8	85.8	85.8	85.8	85.8	85.8	85.8
2000	18.4	75.9	83.0	83.0	86.5	87.9	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1
1800	18.4	75.9	83.0	83.0	86.5	87.9	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1
1500	18.4	77.3	85.1	85.1	88.7	90.1	91.5	92.2	92.2	92.2	92.2	92.2	92.2	92.2
1200	18.4	78.0	85.8	85.8	89.4	90.8	92.2	92.9	92.9	92.9	92.9	92.9	92.9	92.9
1000	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
900	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
800	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
700	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
600	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
500	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
400	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
300	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
200	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
100	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
0	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0

141

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

2

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA

73-77

YEARS

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16	≥ ¼	≥ 0
NO CEILING	15.6	58.9	62.4	62.4	65.3	66.7	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 20000	17.0	61.7	65.3	65.3	68.1	69.5	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 18000	17.0	61.7	65.3	65.3	68.1	69.5	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 16000	17.0	61.7	65.3	65.3	68.1	69.5	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 14000	17.0	61.7	66.7	66.7	69.5	70.9	72.3	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 12000	17.0	61.7	66.7	66.7	69.5	70.9	72.3	73.1	73.1	73.1	73.1	73.1	73.1	73.1
10000	17.0	62.4	67.4	67.4	70.2	71.6	73.1	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 9000	17.7	63.1	68.1	68.1	70.9	72.3	73.8	74.5	74.5	74.5	74.5	74.5	74.5	74.5
8000	17.7	66.0	70.9	70.9	73.8	75.2	76.6	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 7000	17.7	66.0	70.9	70.9	73.8	75.2	76.6	77.3	77.3	77.3	77.3	77.3	77.3	77.3
6000	18.4	68.1	73.1	73.1	75.9	77.3	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 5000	18.4	68.1	73.1	73.1	75.9	77.3	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4
4500	18.4	68.1	73.1	73.1	75.9	77.3	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4
4000	18.4	68.1	73.1	73.1	75.9	77.3	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4
3500	18.4	69.5	74.5	74.5	77.3	78.7	80.1	80.9	80.9	80.9	80.9	80.9	80.9	80.9
3000	18.4	70.9	75.9	75.9	79.4	80.9	82.3	83.0	83.0	83.0	83.0	83.0	83.0	83.0
2500	18.4	72.3	78.7	78.7	82.3	83.7	85.1	85.8	85.8	85.8	85.8	85.8	85.8	85.8
2000	18.4	75.9	83.0	83.0	86.5	87.9	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1
1800	18.4	75.9	83.0	83.0	86.5	87.9	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1
1500	18.4	77.3	85.1	85.1	88.7	90.1	91.5	92.2	92.2	92.2	92.2	92.2	92.2	92.2
1200	18.4	78.0	85.8	85.8	89.4	90.8	92.2	92.9	92.9	92.9	92.9	92.9	92.9	92.9
1000	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
900	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
800	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
700	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
600	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
500	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
400	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
300	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
200	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
100	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
0	18.4	78.7	86.5	86.5	90.1	91.5	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0

141

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEAR

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4
NO CEILING	17.7	50.4	50.4	52.5	55.3	56.0	56.0	56.0	56.0	56.0	56.0
≥ 20000	19.2	54.6	54.6	56.7	60.3	61.0	61.0	61.0	61.0	61.0	61.0
≥ 18000	19.2	54.6	54.6	56.7	60.3	61.0	61.0	61.0	61.0	61.0	61.0
≥ 16000	19.2	54.6	54.6	56.7	60.3	61.0	61.0	61.0	61.0	61.0	61.0
≥ 14000	19.2	54.6	55.3	57.5	61.0	61.7	61.7	61.7	61.7	61.7	61.7
≥ 12000	19.2	55.3	56.0	58.2	61.7	62.4	62.4	62.4	62.4	62.4	62.4
≥ 10000	19.2	57.5	58.9	61.0	64.5	65.3	65.3	65.3	65.3	65.3	65.3
≥ 9000	19.9	58.2	59.6	61.7	65.3	66.0	66.0	66.0	66.0	66.0	66.0
≥ 8000	20.6	58.9	60.3	62.4	66.0	66.7	66.7	66.7	66.7	66.7	66.7
≥ 7000	20.6	59.6	61.0	63.1	66.7	67.4	67.4	67.4	67.4	67.4	67.4
≥ 6000	20.6	59.6	61.0	63.1	66.7	67.4	67.4	67.4	67.4	67.4	67.4
≥ 5000	20.6	59.6	61.7	63.8	67.4	68.1	68.1	68.1	68.1	68.1	68.1
≥ 4500	20.6	60.3	62.4	64.5	68.1	68.8	68.8	68.8	68.8	68.8	68.8
≥ 4000	20.6	62.4	64.5	66.7	70.2	70.9	70.9	70.9	70.9	70.9	70.9
≥ 3500	20.6	62.4	64.5	66.7	70.2	70.9	70.9	70.9	70.9	70.9	70.9
≥ 3000	21.3	65.3	67.4	69.5	73.1	73.8	73.8	73.8	73.8	73.8	73.8
≥ 2500	21.3	67.4	69.5	72.3	75.9	76.6	76.6	76.6	76.6	76.6	76.6
≥ 2000	21.3	71.6	73.8	76.6	80.9	81.6	81.6	81.6	81.6	81.6	81.6
≥ 1800	21.3	71.6	73.8	76.6	80.9	81.6	81.6	81.6	81.6	81.6	81.6
≥ 1500	21.3	73.1	75.2	78.7	83.0	83.7	84.4	84.4	84.4	84.4	84.4
≥ 1200	21.3	73.8	75.9	79.4	83.7	84.4	85.1	85.1	85.1	85.1	85.1
≥ 1000	21.3	74.5	77.3	80.9	85.1	85.8	86.5	87.2	87.2	87.2	87.2
≥ 900	21.3	74.5	77.3	80.9	85.1	85.8	86.5	87.2	87.2	87.2	87.2
≥ 800	21.3	74.5	77.3	81.6	85.8	86.5	87.2	87.2	87.2	87.2	87.2
≥ 700	21.3	74.5	77.3	81.6	85.8	86.5	87.2	87.2	87.2	87.2	87.2
≥ 600	21.3	75.2	78.0	82.3	86.5	87.2	87.2	87.2	87.2	87.2	87.2
≥ 500	21.3	75.2	78.0	82.3	86.5	87.2	87.2	87.2	87.2	87.2	87.2
≥ 400	21.3	75.2	78.0	82.3	86.5	87.2	87.2	87.2	87.2	87.2	87.2
≥ 300	21.3	75.2	78.0	82.3	86.5	87.2	87.2	87.2	87.2	87.2	87.2
≥ 200	21.3	75.9	79.4	83.7	88.7	89.4	91.5	92.2	92.2	92.2	92.2
≥ 100	21.3	75.9	79.4	83.7	88.7	89.4	91.5	92.2	92.2	92.2	92.2
0	21.3	75.9	79.4	83.7	88.7	89.4	91.5	92.2	92.2	92.2	92.2

TOTAL NUMBER OF OBSERVATIONS 141

DIRNA VOCEANMET SMOS

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5703 CEILING VERSUS VISIBILITY JAN 78

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CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

03114
STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

FEB

MONTH

07

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	27.0	48.9	51.1	52.5	53.2	53.2	53.9	53.9	53.9	54.6	54.6	54.6	54.6	54.6
≥ 20000	29.8	53.2	56.0	58.2	58.9	58.9	59.6	59.6	59.6	60.3	60.3	60.3	60.3	60.3
≥ 18000	29.8	53.2	56.0	58.2	58.9	58.9	59.6	59.6	59.6	60.3	60.3	60.3	60.3	60.3
≥ 16000	29.8	53.2	56.0	58.2	58.9	58.9	59.6	59.6	59.6	60.3	60.3	60.3	60.3	60.3
≥ 14000	29.8	53.2	56.7	58.9	59.6	59.6	61.0	61.0	61.0	61.7	61.7	61.7	61.7	61.7
≥ 12000	30.5	53.9	57.5	59.6	60.3	60.3	61.7	61.7	61.7	62.4	62.4	62.4	62.4	62.4
≥ 10000	30.5	54.6	58.2	60.3	61.0	61.0	62.4	62.4	62.4	63.1	63.1	63.1	63.1	63.1
≥ 9000	30.5	54.6	58.2	60.3	61.0	61.0	62.4	62.4	62.4	63.1	63.1	63.1	63.1	63.1
≥ 8000	32.6	57.5	61.7	63.8	64.5	64.5	66.7	66.7	67.4	68.1	68.1	68.1	68.1	68.1
≥ 7000	32.6	58.2	62.4	64.5	65.3	65.3	67.4	67.4	68.1	68.8	68.8	68.8	68.8	68.8
≥ 6000	33.3	58.9	63.1	65.3	66.0	66.0	68.1	68.1	68.8	69.5	69.5	69.5	69.5	69.5
≥ 5000	33.3	59.6	63.8	66.0	66.7	66.7	68.8	68.8	69.5	70.2	70.2	70.2	70.2	70.2
≥ 4500	33.3	60.3	64.5	66.7	67.4	67.4	69.5	69.5	70.2	70.9	70.9	70.9	70.9	70.9
≥ 4000	34.0	61.7	66.0	68.1	68.8	68.8	70.9	70.9	71.6	72.3	72.3	72.3	72.3	72.3
≥ 3500	34.0	62.4	66.7	68.8	69.5	69.5	71.6	71.6	72.3	73.1	73.1	73.1	73.1	73.1
≥ 3000	34.8	63.8	68.1	70.2	70.9	70.9	73.1	73.1	73.8	74.5	74.5	74.5	74.5	74.5
≥ 2500	34.8	66.0	70.2	72.3	73.1	73.1	75.2	75.2	75.9	77.3	77.3	77.3	77.3	77.3
≥ 2000	35.5	68.1	72.3	74.5	75.2	75.2	77.3	77.3	78.0	80.1	80.1	80.1	80.1	80.1
≥ 1800	35.5	68.8	73.1	75.2	75.9	75.9	78.0	78.0	78.7	80.9	80.9	80.9	80.9	80.9
≥ 1500	35.5	72.3	76.6	78.7	80.1	81.6	83.7	83.7	84.4	86.5	86.5	86.5	86.5	86.5
≥ 1200	35.5	72.3	76.6	78.7	80.1	81.6	84.4	84.4	85.1	87.2	87.2	87.2	87.2	87.2
≥ 1000	35.5	73.1	77.3	79.4	80.9	82.3	85.8	85.8	86.5	88.7	88.7	88.7	88.7	88.7
≥ 900	35.5	73.8	78.0	80.1	82.3	83.7	87.2	87.2	87.9	90.1	90.1	90.1	90.1	90.1
≥ 800	35.5	73.8	78.0	80.1	83.0	85.1	88.7	88.7	89.4	91.5	91.5	91.5	91.5	91.5
≥ 700	35.5	73.8	78.0	80.1	83.0	85.1	88.7	88.7	89.4	91.5	91.5	91.5	91.5	91.5
≥ 600	35.5	73.8	78.0	80.1	83.0	85.1	88.7	88.7	89.4	91.5	91.5	91.5	91.5	91.5
≥ 500	35.5	73.8	78.0	80.1	83.0	85.1	88.7	88.7	89.4	91.5	91.5	91.5	91.5	91.5
≥ 400	35.5	73.8	78.0	80.1	83.0	85.1	88.7	88.7	89.4	91.5	91.5	91.5	91.5	91.5
≥ 300	35.5	73.8	78.0	80.1	83.0	85.1	88.7	88.7	89.4	91.5	91.5	91.5	91.5	91.5
≥ 200	35.5	73.8	78.0	80.1	83.0	85.1	88.7	88.7	89.4	91.5	91.5	91.5	91.5	91.5
≥ 100	35.5	73.8	78.0	80.1	83.0	85.1	88.7	88.7	89.4	91.5	91.5	91.5	91.5	91.5
0	35.5	73.8	78.0	80.1	83.0	85.1	88.7	88.7	89.4	91.5	91.5	91.5	91.5	91.5

TOTAL NUMBER OF OBSERVATIONS

141

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

03114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	21.3	42.6	44.7	48.9	51.1	51.8	53.2	53.9	53.9	54.6	54.6
≥ 20000	23.4	45.4	47.5	53.2	55.3	56.0	57.5	58.2	58.2	58.9	58.9
≥ 18000	23.4	45.4	47.5	53.9	56.0	56.7	58.2	58.9	58.9	59.6	59.6
≥ 16000	23.4	45.4	47.5	53.9	56.0	56.7	58.2	58.9	58.9	59.6	59.6
≥ 14000	24.1	46.1	48.2	54.6	56.7	57.5	58.9	59.6	59.6	60.3	60.3
≥ 12000	24.8	46.8	49.7	56.0	58.2	59.6	61.0	61.7	61.7	62.4	62.4
≥ 10000	25.5	48.2	51.1	57.5	59.6	61.0	63.1	63.8	63.8	64.5	64.5
≥ 9000	25.5	48.2	51.1	57.5	59.6	61.0	63.1	63.8	63.8	64.5	64.5
≥ 8000	25.5	48.9	51.8	58.2	60.3	61.7	63.8	64.5	64.5	65.3	65.3
≥ 7000	25.5	48.9	52.5	58.9	61.0	62.4	64.5	65.3	65.3	66.0	66.0
≥ 6000	25.5	48.9	52.5	58.9	61.0	62.4	64.5	65.3	65.3	66.0	66.0
≥ 5000	26.2	49.7	53.2	59.6	61.7	63.1	65.3	66.0	66.0	66.7	66.7
≥ 4500	26.2	49.7	53.2	59.6	61.7	63.1	65.3	66.0	66.0	66.7	66.7
≥ 4000	27.7	53.2	56.7	63.1	65.3	66.7	68.8	69.5	69.5	70.2	70.2
≥ 3500	29.8	55.3	58.9	65.3	67.4	69.5	71.6	72.3	72.3	73.1	73.1
≥ 3000	30.5	57.5	62.4	68.8	70.9	73.1	75.2	75.9	75.9	76.6	76.6
≥ 2500	31.9	60.3	66.0	73.1	75.9	78.7	80.9	81.6	81.6	82.3	82.3
≥ 2000	32.6	66.0	71.6	79.4	83.7	87.2	89.4	90.1	90.1	90.8	90.8
≥ 1800	32.6	66.0	71.6	79.4	83.7	87.2	89.4	90.1	90.1	90.8	90.8
≥ 1500	32.6	68.8	74.5	82.3	86.5	90.1	92.2	92.9	92.9	93.6	93.6
≥ 1200	32.6	68.8	74.5	82.3	86.5	90.1	92.2	92.9	92.9	93.6	93.6
≥ 1000	32.6	69.5	75.2	83.0	87.2	91.5	94.3	95.0	95.0	95.7	95.7
≥ 900	32.6	69.5	75.2	83.0	87.2	91.5	94.3	95.0	95.0	95.7	95.7
≥ 800	32.6	69.5	75.2	83.0	87.2	91.5	94.3	95.0	95.0	95.7	95.7
≥ 700	32.6	69.5	75.2	83.0	87.2	91.5	94.3	95.0	95.0	95.7	95.7
≥ 600	32.6	69.5	75.2	83.0	87.2	91.5	94.3	95.0	95.0	95.7	95.7
≥ 500	32.6	69.5	75.2	83.0	87.2	91.5	94.3	95.0	95.0	95.7	95.7
≥ 400	32.6	69.5	75.2	83.0	87.2	91.5	94.3	95.0	95.0	95.7	95.7
≥ 300	32.6	69.5	75.2	83.0	87.2	91.5	94.3	95.0	95.0	95.7	95.7
≥ 200	32.6	69.5	75.2	83.0	87.2	91.5	94.3	95.0	95.0	95.7	95.7
≥ 100	32.6	69.5	75.2	83.0	87.2	91.5	94.3	95.0	95.0	95.7	95.7
≥ 0	32.6	69.5	75.2	83.0	87.2	91.5	94.3	95.0	95.0	95.7	95.7

TOTAL NUMBER OF OBSERVATIONS

141

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	24.1	44.0	48.9	51.1	53.9	55.3	56.0	56.7	57.5	58.2	58.2	58.2	58.2
≥ 20000	27.7	48.9	53.9	56.7	59.6	61.0	63.1	63.8	64.5	65.3	65.3	65.3	65.3
≥ 18000	27.7	48.9	53.9	56.7	59.6	61.0	63.1	63.8	64.5	65.3	65.3	65.3	65.3
≥ 16000	27.7	48.9	53.9	56.7	59.6	61.0	63.1	63.8	64.5	65.3	65.3	65.3	65.3
≥ 14000	27.7	49.7	54.6	57.5	60.3	61.7	63.8	64.5	65.3	66.0	66.0	66.0	66.0
≥ 12000	28.4	51.1	56.0	58.9	61.7	63.1	65.3	66.0	66.7	67.4	67.4	67.4	67.4
≥ 10000	29.1	52.5	57.5	60.3	63.1	64.5	66.7	67.4	68.1	68.8	68.8	68.8	68.8
≥ 9000	29.1	52.5	57.5	60.3	63.1	64.5	66.7	67.4	68.1	68.8	68.8	68.8	68.8
≥ 8000	29.1	52.5	57.5	61.0	63.8	65.3	67.4	68.1	68.8	69.5	69.5	69.5	69.5
≥ 7000	29.1	52.5	57.5	61.0	63.8	65.3	67.4	68.1	68.8	69.5	69.5	69.5	69.5
≥ 6000	29.1	52.5	57.5	61.0	63.8	65.3	67.4	68.1	68.8	69.5	69.5	69.5	69.5
≥ 5000	29.8	54.6	59.6	63.1	66.0	68.1	70.2	70.9	71.6	72.3	72.3	72.3	72.3
≥ 4500	30.5	56.0	61.0	64.5	67.4	69.5	71.6	72.3	73.1	73.8	73.8	73.8	73.8
≥ 4000	31.9	58.2	63.8	67.4	70.2	72.3	74.5	75.2	75.9	76.6	76.6	76.6	76.6
≥ 3500	32.6	60.3	66.0	69.5	72.3	74.5	76.6	77.3	78.0	78.7	78.7	78.7	78.7
≥ 3000	34.8	63.8	70.2	73.8	76.6	79.4	81.6	82.3	83.0	83.7	83.7	83.7	83.7
≥ 2500	36.2	68.1	74.5	78.0	80.9	83.7	85.8	86.5	87.2	87.9	87.9	87.9	87.9
≥ 2000	38.3	72.3	78.7	82.3	85.1	87.9	90.1	90.8	91.5	92.2	92.2	92.2	92.2
≥ 1800	38.3	73.8	80.1	83.7	86.5	89.4	91.5	92.2	92.9	93.6	93.6	93.6	93.6
≥ 1500	38.3	76.6	83.0	86.5	89.4	92.2	94.3	95.0	95.7	96.5	96.5	96.5	96.5
≥ 1200	38.3	76.6	83.0	87.2	90.1	92.9	95.0	95.7	96.5	97.2	97.2	97.2	97.2
≥ 1000	39.0	77.3	83.7	87.9	91.5	94.3	96.5	97.2	97.9	98.6	98.6	98.6	98.6
≥ 900	39.0	77.3	83.7	87.9	91.5	94.3	96.5	97.2	97.9	98.6	98.6	98.6	98.6
≥ 800	39.0	77.3	83.7	87.9	92.2	95.0	97.2	97.9	98.6	99.3	99.3	99.3	99.3
≥ 700	39.0	77.3	83.7	87.9	92.9	95.7	97.9	98.6	99.3	100.0	100.0	100.0	100.0
≥ 600	39.0	77.3	83.7	87.9	92.9	95.7	97.9	98.6	99.3	100.0	100.0	100.0	100.0
≥ 500	39.0	77.3	83.7	87.9	92.9	95.7	97.9	98.6	99.3	100.0	100.0	100.0	100.0
≥ 400	39.0	77.3	83.7	87.9	92.9	95.7	97.9	98.6	99.3	100.0	100.0	100.0	100.0
≥ 300	39.0	77.3	83.7	87.9	92.9	95.7	97.9	98.6	99.3	100.0	100.0	100.0	100.0
≥ 200	39.0	77.3	83.7	87.9	92.9	95.7	97.9	98.6	99.3	100.0	100.0	100.0	100.0
≥ 100	39.0	77.3	83.7	87.9	92.9	95.7	97.9	98.6	99.3	100.0	100.0	100.0	100.0
0	39.0	77.3	83.7	87.9	92.9	95.7	97.9	98.6	99.3	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

141

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

03114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼
NO CEILING	27.0	51.8	55.3	56.0	57.5	57.5	58.2	59.6	59.6	59.6	59.6	59.6	59.6
≥ 20000	32.6	60.3	63.8	64.5	66.0	66.7	67.4	68.8	68.8	68.8	68.8	68.8	68.8
≥ 18000	32.6	61.0	64.5	65.3	66.7	67.4	68.1	69.5	69.5	69.5	69.5	69.5	69.5
≥ 16000	32.6	61.0	64.5	65.3	66.7	67.4	68.1	69.5	69.5	69.5	69.5	69.5	69.5
≥ 14000	32.6	62.4	66.0	66.7	68.1	68.8	69.5	70.9	70.9	70.9	70.9	70.9	70.9
≥ 12000	32.6	63.8	67.4	68.1	69.5	70.2	70.9	72.3	72.3	72.3	72.3	72.3	72.3
≥ 10000	34.0	66.7	70.2	70.9	72.3	73.1	73.8	75.2	75.2	75.2	75.2	75.2	75.2
≥ 9000	34.0	66.7	70.2	70.9	72.3	73.1	73.8	75.2	75.2	75.2	75.2	75.2	75.2
≥ 8000	34.8	68.1	71.6	72.3	73.8	74.5	75.2	76.6	76.6	76.6	76.6	76.6	76.6
≥ 7000	34.8	68.1	71.6	72.3	73.8	74.5	75.2	76.6	76.6	76.6	76.6	76.6	76.6
≥ 6000	36.2	69.5	73.1	73.8	75.2	75.9	76.6	78.0	78.0	78.0	78.0	78.0	78.0
≥ 5000	36.2	69.5	73.1	73.8	75.2	75.9	76.6	78.0	78.0	78.0	78.0	78.0	78.0
≥ 4500	36.2	69.5	73.1	73.8	75.2	75.9	76.6	78.0	78.0	78.0	78.0	78.0	78.0
≥ 4000	37.6	72.3	75.9	77.3	79.4	80.1	80.9	82.3	82.3	82.3	82.3	82.3	82.3
≥ 3500	37.6	74.5	78.0	79.4	81.6	82.3	83.0	84.4	84.4	84.4	84.4	84.4	84.4
≥ 3000	39.0	75.9	79.4	80.9	83.0	83.7	84.4	85.8	85.8	85.8	85.8	85.8	85.8
≥ 2500	40.4	80.1	83.7	85.1	87.2	87.9	88.7	90.1	90.1	90.1	90.1	90.1	90.1
≥ 2000	41.1	82.3	85.8	87.2	89.4	90.1	90.8	92.2	92.2	92.2	92.2	92.2	92.2
≥ 1800	41.8	84.4	87.9	89.4	91.5	92.2	92.9	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1500	41.8	84.4	87.9	90.1	92.2	92.9	94.3	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1200	41.8	84.4	87.9	90.1	92.2	92.9	94.3	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1000	41.8	87.2	90.8	92.9	95.0	95.7	97.2	98.6	98.6	98.6	98.6	98.6	98.6
≥ 900	41.8	87.2	90.8	92.9	95.0	95.7	97.2	98.6	98.6	98.6	98.6	98.6	98.6
≥ 800	41.8	87.2	90.8	92.9	95.0	95.7	97.2	98.6	98.6	98.6	98.6	98.6	98.6
≥ 700	41.8	87.2	90.8	92.9	95.0	95.7	97.2	98.6	98.6	98.6	98.6	98.6	98.6
≥ 600	41.8	87.2	90.8	92.9	95.0	95.7	97.2	98.6	98.6	98.6	98.6	98.6	98.6
≥ 500	41.8	87.2	90.8	92.9	95.0	95.7	97.9	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	41.8	87.2	90.8	92.9	95.0	95.7	97.9	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	41.8	87.2	90.8	92.9	95.0	95.7	97.9	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200	41.8	87.2	90.8	92.9	95.0	95.7	97.9	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100	41.8	87.2	90.8	92.9	95.0	95.7	97.9	99.3	99.3	99.3	99.3	99.3	99.3
0	41.8	87.2	90.8	92.9	95.0	95.7	97.9	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114

SANTA ANA, CALIFORNIA

73-77

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	17.7	59.6	61.0	63.1	64.5	64.5	66.0	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 20000	17.7	62.4	64.5	66.7	68.1	68.1	69.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6
18000	17.7	62.4	64.5	66.7	68.1	68.1	69.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6
16000	17.7	62.4	64.5	66.7	68.1	68.1	69.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6
14000	17.7	64.5	66.7	68.8	70.2	70.2	71.6	73.8	73.8	73.8	73.8	73.8	73.8	73.8
12000	18.4	66.0	68.1	70.2	71.6	71.6	73.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2
10000	18.4	67.4	69.5	71.6	73.1	73.1	74.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6
9000	18.4	67.4	69.5	71.6	73.1	73.1	74.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6
8000	18.4	68.8	70.9	73.8	75.2	75.2	76.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7
7000	18.4	68.8	70.9	73.8	75.2	75.2	76.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7
6000	18.4	70.2	72.3	75.2	76.6	76.6	78.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1
5000	18.4	70.2	73.1	75.9	77.3	77.3	78.7	80.9	80.9	80.9	80.9	80.9	80.9	80.9
4500	18.4	72.3	75.2	78.0	79.4	79.4	80.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0
4000	18.4	75.9	78.7	81.6	83.0	83.0	84.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5
3500	18.4	78.7	81.6	84.4	85.8	85.8	87.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4
3000	19.2	81.6	84.4	87.2	89.4	89.4	90.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9
2500	19.9	83.0	85.8	88.7	90.8	90.8	92.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3
2000	19.9	84.4	87.2	90.1	92.2	92.2	93.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
1800	19.9	84.4	87.2	90.1	92.2	92.2	93.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
1500	19.9	86.5	89.4	92.2	94.3	94.3	95.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9
1200	19.9	86.5	89.4	92.2	94.3	94.3	95.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9
1000	19.9	87.2	90.1	92.9	95.0	95.0	96.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
900	19.9	87.2	90.1	92.9	95.0	95.0	96.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
800	19.9	87.2	90.1	92.9	95.0	95.0	96.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
700	19.9	87.2	90.1	92.9	95.0	95.0	96.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
600	19.9	87.9	90.8	93.6	95.7	95.7	97.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	19.9	87.9	90.8	93.6	95.7	95.7	97.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	19.9	87.9	90.8	93.6	95.7	95.7	97.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	19.9	87.9	90.8	93.6	95.7	95.7	97.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	19.9	87.9	90.8	93.6	95.7	95.7	97.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	19.9	87.9	90.8	93.6	95.7	95.7	97.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	19.9	87.9	90.8	93.6	95.7	95.7	97.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

141

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	15.6	58.9	61.0	63.8	64.5	64.5	66.7	66.7	66.7	66.7	66.7
≥ 20000	15.6	62.4	64.5	67.4	68.1	68.1	70.2	70.2	70.2	70.2	70.2
≥ 18000	15.6	62.4	64.5	67.4	68.1	68.1	70.2	70.2	70.2	70.2	70.2
≥ 16000	15.6	62.4	64.5	67.4	68.1	68.1	70.2	70.2	70.2	70.2	70.2
≥ 14000	15.6	63.1	65.3	68.1	68.8	68.8	70.9	70.9	70.9	70.9	70.9
≥ 12000	15.6	63.8	66.0	68.8	69.5	69.5	71.6	71.6	71.6	71.6	71.6
≥ 10000	16.3	65.3	67.4	70.2	70.9	70.9	73.1	73.1	73.1	73.1	73.1
≥ 9000	16.3	65.3	67.4	70.2	70.9	70.9	73.1	73.1	73.1	73.1	73.1
≥ 8000	16.3	67.4	69.5	72.3	73.8	73.8	75.9	75.9	75.9	75.9	75.9
≥ 7000	16.3	68.1	70.2	73.1	74.5	74.5	76.6	76.6	76.6	76.6	76.6
≥ 6000	16.3	68.1	70.2	73.1	74.5	74.5	76.6	76.6	76.6	76.6	76.6
≥ 5000	16.3	68.8	70.9	73.8	75.2	75.2	77.3	77.3	77.3	77.3	77.3
≥ 4500	16.3	69.5	71.6	74.5	75.9	75.9	78.0	78.0	78.0	78.0	78.0
≥ 4000	16.3	70.2	72.3	75.2	76.6	76.6	78.7	78.7	78.7	78.7	78.7
≥ 3500	16.3	72.3	74.5	77.3	78.7	78.7	80.9	80.9	80.9	80.9	80.9
≥ 3000	17.7	78.0	80.1	83.0	84.4	84.4	86.5	86.5	86.5	86.5	86.5
≥ 2500	17.7	78.7	80.9	83.7	85.1	85.1	87.2	87.2	87.2	87.2	87.2
≥ 2000	17.7	81.6	85.1	87.9	89.4	89.4	91.5	91.5	91.5	91.5	91.5
≥ 1800	17.7	82.3	85.8	88.7	90.1	90.1	92.2	92.2	92.2	92.2	92.2
≥ 1500	17.7	83.0	87.2	90.1	91.5	91.5	93.6	93.6	93.6	93.6	93.6
≥ 1200	17.7	83.0	87.2	90.1	91.5	91.5	93.6	93.6	93.6	93.6	93.6
≥ 1000	17.7	84.4	88.7	92.2	94.3	94.3	96.5	96.5	96.5	96.5	96.5
≥ 900	17.7	84.4	88.7	92.2	94.3	94.3	96.5	96.5	96.5	96.5	96.5
≥ 800	17.7	84.4	88.7	92.2	94.3	94.3	97.2	97.2	97.2	97.2	97.2
≥ 700	17.7	84.4	88.7	92.2	94.3	94.3	97.9	97.9	97.9	97.9	97.9
≥ 600	17.7	84.4	88.7	92.2	94.3	94.3	97.9	97.9	97.9	97.9	97.9
≥ 500	17.7	84.4	88.7	92.2	94.3	94.3	97.9	97.9	97.9	97.9	97.9
≥ 400	17.7	84.4	88.7	92.2	94.3	94.3	98.6	98.6	98.6	98.6	98.6
≥ 300	17.7	84.4	88.7	92.2	94.3	94.3	98.6	98.6	98.6	98.6	98.6
≥ 200	17.7	84.4	88.7	92.2	94.3	94.3	98.6	98.6	98.6	98.6	98.6
≥ 100	17.7	84.4	88.7	92.2	94.3	94.3	98.6	98.6	98.6	98.6	98.6
0	17.7	84.4	88.7	92.2	94.3	94.3	98.6	98.6	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS

141

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	20.7	51.9	54.3	56.3	58.2	58.7	59.7	60.3	60.4	60.6	60.6	60.6	60.6	60.6
≥ 20000	22.9	56.1	58.8	61.1	63.0	63.7	64.9	65.6	65.7	66.0	66.0	66.0	66.0	66.1
≥ 18000	22.9	56.2	58.9	61.3	63.2	63.8	65.1	65.8	65.9	66.1	66.1	66.1	66.1	66.3
≥ 16000	22.9	56.2	58.9	61.3	63.2	63.8	65.1	65.8	65.9	66.1	66.1	66.1	66.1	66.3
≥ 14000	23.0	56.9	59.9	62.3	64.3	64.9	66.2	66.9	67.0	67.3	67.3	67.3	67.3	67.5
≥ 12000	23.3	57.8	60.9	63.3	65.3	66.0	67.3	68.0	68.1	68.4	68.4	68.4	68.4	68.5
≥ 10000	23.8	59.3	62.5	64.9	66.8	67.6	69.0	69.7	69.8	70.0	70.0	70.0	70.0	70.3
≥ 9000	23.9	59.5	62.7	65.1	67.0	67.7	69.2	69.9	70.0	70.2	70.2	70.2	70.2	70.5
≥ 8000	24.4	61.0	64.3	66.8	68.9	69.6	71.1	71.8	72.0	72.3	72.3	72.3	72.3	72.5
≥ 7000	24.4	61.3	64.6	67.2	69.2	70.0	71.5	72.2	72.3	72.6	72.6	72.6	72.6	72.9
≥ 6000	24.7	62.0	65.3	67.9	70.0	70.7	72.3	73.0	73.1	73.4	73.4	73.4	73.4	73.7
≥ 5000	24.9	62.5	66.1	68.6	70.7	71.5	73.0	73.7	73.9	74.1	74.1	74.1	74.1	74.4
≥ 4500	25.0	63.2	66.8	69.3	71.4	72.2	73.7	74.4	74.6	74.8	74.8	74.8	74.8	75.1
≥ 4000	25.6	65.3	68.9	71.5	73.7	74.5	76.0	76.7	76.9	77.1	77.1	77.1	77.1	77.4
≥ 3500	26.0	66.9	70.6	73.2	75.4	76.2	77.8	78.5	78.6	78.9	78.9	78.9	78.9	79.2
≥ 3000	27.0	69.6	73.5	76.2	78.5	79.4	80.9	81.7	81.8	82.1	82.1	82.1	82.1	82.4
≥ 2500	27.6	72.0	76.2	79.0	81.4	82.5	84.0	84.7	84.8	85.2	85.2	85.2	85.2	85.5
≥ 2000	28.1	75.3	79.7	82.6	85.3	86.4	87.9	88.7	88.8	89.3	89.3	89.3	89.3	89.5
≥ 1800	28.2	75.9	80.3	83.2	85.9	87.1	88.6	89.3	89.5	89.9	89.9	89.9	89.9	90.2
≥ 1500	28.2	77.8	82.4	85.5	88.2	89.5	91.2	91.9	92.1	92.6	92.6	92.6	92.6	92.8
≥ 1200	28.2	77.9	82.5	85.7	88.5	89.8	91.6	92.3	92.5	92.9	92.9	92.9	92.9	93.2
≥ 1000	28.3	79.0	83.7	87.0	89.9	91.3	93.4	94.2	94.4	94.9	94.9	94.9	94.9	95.1
≥ 900	28.3	79.1	83.8	87.1	90.1	91.5	93.5	94.4	94.6	95.0	95.0	95.0	95.0	95.3
≥ 800	28.3	79.1	83.8	87.2	90.3	91.8	94.1	95.0	95.1	95.6	95.6	95.6	95.6	95.8
≥ 700	28.3	79.1	83.8	87.2	90.4	91.9	94.2	95.1	95.3	95.7	95.7	95.7	95.7	96.0
≥ 600	28.3	79.3	84.0	87.4	90.8	92.3	94.9	95.7	95.9	96.4	96.4	96.4	96.4	96.7
≥ 500	28.3	79.3	84.0	87.4	90.9	92.4	95.0	95.9	96.1	96.6	96.6	96.6	96.6	97.0
≥ 400	28.3	79.3	84.0	87.4	90.9	92.4	95.1	96.0	96.2	96.7	96.7	96.7	96.7	97.3
≥ 300	28.3	79.3	84.0	87.4	90.9	92.4	95.1	96.0	96.2	96.7	96.7	96.7	96.7	97.3
≥ 200	28.3	79.3	84.1	87.6	91.1	92.6	95.3	96.2	96.4	97.0	97.0	97.0	97.0	97.5
≥ 100	28.3	79.3	84.1	87.6	91.1	92.6	95.3	96.2	96.4	97.0	97.0	97.0	97.0	97.5
≥ 0	28.3	79.3	84.1	87.6	91.1	92.6	95.3	96.2	96.4	97.0	97.0	97.0	97.0	97.5

1128

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

MAR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	11.6	60.7	60.7	61.3	61.3	61.3	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 20000	12.3	62.6	62.6	63.2	63.2	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 18000	12.3	62.6	62.6	63.2	63.2	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 16000	12.3	62.6	62.6	63.2	63.2	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 14000	12.3	62.6	62.6	63.2	63.2	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 12000	12.3	63.2	63.2	63.9	63.9	63.9	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 10000	12.3	63.9	63.9	64.5	64.5	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 9000	12.3	63.9	63.9	64.5	64.5	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 8000	12.3	65.2	65.2	65.8	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 7000	12.3	65.8	65.8	66.5	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 6000	12.3	65.8	65.8	66.5	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 5000	12.3	67.1	67.1	67.7	67.7	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 4500	12.3	67.1	67.1	67.7	67.7	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 4000	12.3	69.0	69.0	69.7	69.7	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 3500	12.3	72.3	72.3	72.9	72.9	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 3000	12.9	76.1	76.8	77.4	77.4	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 2500	14.2	83.2	83.9	84.5	84.5	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 2000	14.2	87.7	89.0	89.7	89.7	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1800	14.2	87.7	89.0	89.7	89.7	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1500	14.2	89.7	91.6	92.9	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1200	14.2	89.7	91.6	92.9	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1000	14.2	91.6	93.6	94.8	94.8	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 900	14.2	91.6	93.6	95.5	95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 800	14.2	91.6	93.6	95.5	95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 700	14.2	92.3	94.2	96.1	96.1	96.1	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 600	14.2	92.3	94.2	96.1	96.1	96.1	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 500	14.2	92.3	94.2	96.1	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 400	14.2	92.3	94.2	96.1	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 300	14.2	92.3	94.2	96.1	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 200	14.2	92.3	94.2	96.1	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 100	14.2	92.3	94.2	96.1	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 0	14.2	92.3	94.2	96.1	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

MAR
MONTH

04
HOURS (LST.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	11.6	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	60.0	60.0	60.0
≥ 20000	11.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	61.3	61.3	61.3
≥ 18000	11.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	61.3	61.3	61.3
≥ 16000	11.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	61.3	61.3	61.3
≥ 14000	11.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	61.3	61.3	61.3
≥ 12000	11.6	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	62.6	62.6	62.6
≥ 10000	12.3	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	64.5	64.5	64.5
≥ 9000	12.3	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	64.5	64.5	64.5
8000	12.3	63.9	63.9	63.9	63.9	64.5	64.5	64.5	64.5	64.5	65.2	65.2	65.2
7000	12.3	63.9	63.9	63.9	63.9	64.5	64.5	64.5	64.5	64.5	65.2	65.2	65.2
6000	12.3	63.9	63.9	63.9	63.9	64.5	64.5	64.5	64.5	64.5	65.2	65.2	65.2
5000	12.3	64.5	65.2	65.2	65.2	65.8	65.8	65.8	65.8	65.8	66.5	66.5	66.5
4500	12.3	65.2	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	67.1	67.1	67.1
4000	12.9	67.1	67.7	67.7	67.7	68.4	68.4	68.4	68.4	68.4	69.0	69.0	69.0
3500	12.9	70.3	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6	72.3	72.3	72.3
3000	13.6	76.8	78.1	78.1	78.1	78.7	78.7	78.7	78.7	78.7	79.4	79.4	79.4
2500	14.2	81.3	82.6	82.6	82.6	83.2	83.2	83.2	83.2	83.2	83.9	83.9	83.9
2000	14.2	85.8	87.1	87.7	87.7	88.4	88.4	88.4	88.4	88.4	89.0	89.0	89.0
1800	14.2	85.8	87.1	87.7	87.7	88.4	88.4	88.4	88.4	88.4	89.0	89.0	89.0
1500	14.2	87.1	89.0	90.3	90.3	91.0	91.0	91.0	91.0	91.0	91.6	91.6	91.6
1200	14.2	88.4	90.3	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.9	92.9	92.9
1000	14.2	89.0	91.0	92.3	92.3	92.9	92.9	92.9	92.9	92.9	93.6	93.6	93.6
900	14.8	89.7	92.3	93.6	94.2	94.8	94.8	94.8	94.8	94.8	95.5	95.5	95.5
800	14.8	90.3	92.9	94.2	94.8	95.5	95.5	95.5	95.5	95.5	96.1	96.1	96.1
700	14.8	90.3	92.9	94.2	94.8	95.5	95.5	95.5	95.5	95.5	96.1	96.1	96.1
600	14.8	90.3	92.9	94.2	94.8	95.5	95.5	95.5	95.5	95.5	96.1	96.1	96.1
500	14.8	90.3	92.9	94.2	94.8	95.5	95.5	95.5	95.5	95.5	96.1	96.1	96.1
400	14.8	90.3	92.9	94.2	94.8	95.5	95.5	95.5	95.5	95.5	96.1	96.1	96.1
300	14.8	90.3	92.9	94.2	94.8	95.5	95.5	95.5	95.5	95.5	96.1	96.1	96.1
200	14.8	90.3	92.9	94.2	94.8	95.5	95.5	95.5	95.5	95.5	96.1	96.1	96.1
100	14.8	90.3	92.9	94.2	94.8	95.5	95.5	95.5	95.5	95.5	96.1	96.1	96.1
0	14.8	90.3	92.9	94.2	94.8	95.5	95.5	95.5	95.5	95.5	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

MAR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	23.9	48.4	49.7	51.0	51.0	51.0	51.0	51.0	51.0	52.3	52.3	52.3	52.3
≥ 20000	24.5	51.0	52.3	53.6	54.2	54.2	54.2	54.2	54.2	55.5	55.5	55.5	55.5
≥ 18000	24.5	51.0	52.3	53.6	54.2	54.2	54.2	54.2	54.2	55.5	55.5	55.5	55.5
≥ 16000	24.5	51.0	52.3	53.6	54.2	54.2	54.2	54.2	54.2	55.5	55.5	55.5	55.5
≥ 14000	24.5	51.0	52.3	53.6	54.2	54.2	54.2	54.2	54.2	55.5	55.5	55.5	55.5
≥ 12000	25.2	52.3	53.6	54.8	55.5	55.5	55.5	55.5	55.5	56.8	56.8	56.8	56.8
≥ 10000	25.2	52.9	54.2	55.5	56.8	56.8	56.8	56.8	56.8	58.1	58.1	58.1	58.1
≥ 9000	25.2	52.9	54.2	55.5	56.8	56.8	56.8	56.8	56.8	58.1	58.1	58.1	58.1
≥ 8000	25.8	53.6	54.8	56.8	58.1	58.1	58.1	58.1	58.1	59.4	59.4	59.4	59.4
≥ 7000	25.8	53.6	54.8	56.8	58.1	58.1	58.1	58.1	58.1	59.4	59.4	59.4	59.4
≥ 6000	26.5	54.2	55.5	57.4	58.7	58.7	58.7	58.7	58.7	60.0	60.0	60.0	60.0
≥ 5000	26.5	54.2	55.5	57.4	58.7	58.7	58.7	58.7	58.7	60.0	60.0	60.0	60.0
≥ 4500	26.5	56.1	57.4	59.4	61.3	61.3	61.3	61.3	61.3	62.6	62.6	62.6	62.6
≥ 4000	26.5	56.8	58.1	60.0	61.9	61.9	61.9	61.9	61.9	63.2	63.2	63.2	63.2
≥ 3500	26.5	59.4	60.7	62.6	64.5	64.5	64.5	64.5	64.5	65.8	65.8	65.8	65.8
≥ 3000	29.0	67.1	69.0	71.6	73.6	73.6	73.6	73.6	73.6	74.8	74.8	74.8	74.8
≥ 2500	31.0	71.6	73.6	76.1	78.1	78.1	78.1	78.1	78.1	79.4	79.4	79.4	79.4
≥ 2000	31.6	75.5	77.4	80.0	81.9	81.9	81.9	81.9	81.9	83.9	83.9	83.9	83.9
≥ 1800	31.6	75.5	77.4	80.0	81.9	81.9	81.9	81.9	81.9	83.9	83.9	83.9	83.9
≥ 1500	31.6	76.8	78.7	81.3	83.9	83.9	83.9	83.9	83.9	86.5	86.5	86.5	86.5
≥ 1200	31.6	77.4	80.0	82.6	86.5	86.5	86.5	86.5	86.5	89.7	89.7	89.7	89.7
≥ 1000	31.6	79.4	81.9	84.5	89.0	89.0	89.0	89.0	89.0	91.0	91.0	91.0	91.0
≥ 900	31.6	79.4	81.9	84.5	89.0	89.0	89.0	89.0	89.0	91.0	91.0	91.0	91.0
≥ 800	31.6	79.4	81.9	84.5	89.0	89.0	89.0	89.0	89.0	91.0	91.0	91.0	91.0
≥ 700	31.6	79.4	81.9	84.5	89.0	89.0	89.0	89.0	89.0	91.0	91.0	91.0	91.0
≥ 600	31.6	79.4	81.9	84.5	89.0	89.0	89.0	89.0	89.0	91.0	91.0	91.0	91.0
≥ 500	31.6	79.4	81.9	84.5	89.0	89.0	89.0	89.0	89.0	91.0	91.0	91.0	91.0
≥ 400	31.6	79.4	81.9	85.2	89.7	89.7	89.7	89.7	89.7	93.6	93.6	93.6	93.6
≥ 300	31.6	79.4	81.9	85.2	89.7	89.7	89.7	89.7	89.7	93.6	93.6	93.6	93.6
≥ 200	31.6	79.4	81.9	85.2	89.7	89.7	89.7	89.7	89.7	93.6	93.6	93.6	93.6
≥ 100	31.6	79.4	81.9	85.2	89.7	89.7	89.7	89.7	89.7	93.6	93.6	93.6	93.6
0	31.6	79.4	81.9	85.2	89.7	89.7	89.7	89.7	89.7	93.6	93.6	93.6	93.6

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

MAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	22.6	40.7	41.3	42.6	43.2	43.2	44.5	45.2	45.2	45.8	45.8	45.8	45.8
≥ 20000	22.6	42.6	43.2	44.5	45.8	46.5	47.7	48.4	48.4	49.7	49.7	49.7	49.7
≥ 18000	22.6	43.2	43.9	45.2	46.5	47.1	48.4	49.0	49.0	50.3	50.3	50.3	50.3
≥ 16000	22.6	43.2	43.9	45.2	46.5	47.1	48.4	49.0	49.0	50.3	50.3	50.3	50.3
≥ 14000	22.6	43.9	44.5	45.8	47.1	47.7	49.0	49.7	49.7	51.0	51.0	51.0	51.0
≥ 12000	22.6	43.9	44.5	45.8	47.1	47.7	49.0	49.7	49.7	51.0	51.0	51.0	51.0
≥ 10000	23.2	44.5	45.2	46.5	47.7	48.4	49.7	50.3	50.3	52.3	52.3	52.3	52.3
≥ 9000	23.2	44.5	45.2	46.5	47.7	48.4	49.7	50.3	50.3	52.3	52.3	52.3	52.3
≥ 8000	24.5	45.8	46.5	47.7	49.0	49.7	51.0	51.6	51.6	53.6	53.6	53.6	53.6
≥ 7000	24.5	46.5	47.1	48.4	49.7	50.3	51.6	52.3	52.3	54.2	54.2	54.2	54.2
≥ 6000	24.5	46.5	47.1	48.4	49.7	50.3	51.6	52.3	52.3	54.2	54.2	54.2	54.2
≥ 5000	24.5	46.5	47.1	48.4	49.7	50.3	51.6	52.3	52.3	54.2	54.2	54.2	54.2
≥ 4500	24.5	47.1	47.7	49.0	50.3	51.0	52.3	52.9	52.9	54.8	54.8	54.8	54.8
≥ 4000	25.8	49.7	50.3	51.6	52.9	53.6	54.8	55.5	55.5	57.4	57.4	57.4	57.4
≥ 3500	25.8	51.6	53.6	54.8	56.1	56.8	58.1	58.7	58.7	60.7	60.7	60.7	60.7
≥ 3000	32.3	62.6	65.2	66.5	67.7	68.4	69.7	70.3	70.3	72.3	72.3	72.3	72.3
≥ 2500	33.6	69.0	71.6	72.9	74.2	75.5	77.4	78.1	78.1	80.0	80.0	80.0	80.0
≥ 2000	37.4	76.1	78.7	80.0	81.9	83.2	85.2	85.8	85.8	87.7	87.7	87.7	87.7
≥ 1800	37.4	76.1	78.7	80.0	82.6	83.9	85.8	86.5	86.5	88.4	88.4	88.4	88.4
≥ 1500	39.4	81.3	84.5	85.8	89.0	90.3	92.3	92.9	92.9	94.8	94.8	94.8	94.8
≥ 1200	39.4	81.3	84.5	85.8	89.0	90.3	92.3	92.9	92.9	94.8	94.8	94.8	94.8
≥ 1000	40.0	83.2	86.5	88.4	91.6	92.9	94.8	95.5	95.5	97.4	97.4	97.4	97.4
≥ 900	40.0	83.2	86.5	88.4	91.6	92.9	94.8	95.5	95.5	97.4	97.4	97.4	97.4
≥ 800	40.0	83.2	86.5	88.4	91.6	92.9	94.8	95.5	95.5	97.4	97.4	97.4	97.4
≥ 700	40.0	83.2	86.5	88.4	91.6	92.9	94.8	95.5	95.5	97.4	97.4	97.4	97.4
≥ 600	40.0	83.2	86.5	88.4	91.6	92.9	94.8	95.5	95.5	97.4	97.4	97.4	97.4
≥ 500	40.0	83.2	86.5	88.4	91.6	92.9	94.8	95.5	95.5	97.4	97.4	97.4	97.4
≥ 400	40.0	83.2	86.5	88.4	91.6	92.9	94.8	95.5	95.5	97.4	97.4	97.4	97.4
≥ 300	40.0	83.2	86.5	89.0	92.3	93.6	95.5	96.1	96.8	99.4	100.0	100.0	100.0
≥ 200	40.0	83.2	86.5	89.0	92.3	93.6	95.5	96.1	96.8	99.4	100.0	100.0	100.0
≥ 100	40.0	83.2	86.5	89.0	92.3	93.6	95.5	96.1	96.8	99.4	100.0	100.0	100.0
0	40.0	83.2	86.5	89.0	92.3	93.6	95.5	96.1	96.8	99.4	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

2

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114

SANTA ANA, CALIFORNIA

73-77

MAR

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	29.0	47.7	47.7	50.3	51.6	51.6	51.6	52.3	52.3	52.9	52.9	52.9	52.9
≥ 20000	32.3	52.9	52.9	55.5	56.8	57.4	58.1	59.4	59.4	60.0	60.0	60.0	60.0
≥ 18000	32.3	52.9	52.9	55.5	56.8	57.4	58.1	59.4	59.4	60.0	60.0	60.0	60.0
≥ 16000	32.3	52.9	52.9	55.5	56.8	57.4	58.1	59.4	59.4	60.0	60.0	60.0	60.0
≥ 14000	32.3	52.9	52.9	55.5	56.8	57.4	58.1	59.4	59.4	60.0	60.0	60.0	60.0
≥ 12000	32.9	54.2	54.2	56.8	58.1	58.7	59.4	60.7	60.7	61.3	61.3	61.3	61.3
≥ 10000	32.9	54.8	54.8	57.4	58.7	59.4	60.0	61.3	61.3	61.9	61.9	61.9	61.9
≥ 9000	32.9	54.8	54.8	57.4	58.7	59.4	60.0	61.3	61.3	61.9	61.9	61.9	61.9
≥ 8000	33.6	55.5	55.5	58.1	59.4	60.0	60.7	61.9	61.9	62.6	62.6	62.6	62.6
≥ 7000	33.6	56.8	56.8	59.4	60.7	61.3	61.9	63.2	63.2	63.9	63.9	63.9	63.9
≥ 6000	33.6	56.8	56.8	59.4	60.7	61.3	61.9	63.2	63.2	63.9	63.9	63.9	63.9
≥ 5000	34.2	57.4	57.4	60.0	61.3	61.9	62.6	63.9	63.9	64.5	64.5	64.5	64.5
≥ 4500	35.5	60.0	60.0	62.6	63.9	64.5	65.2	66.5	66.5	67.1	67.1	67.1	67.1
≥ 4000	36.8	64.5	64.5	67.1	68.4	69.0	69.7	71.0	71.0	71.6	71.6	71.6	71.6
≥ 3500	39.4	74.2	74.2	76.8	78.1	79.4	80.0	81.3	81.3	81.9	81.9	81.9	81.9
≥ 3000	43.2	81.3	81.3	85.2	86.5	87.7	88.4	89.7	89.7	90.3	90.3	90.3	90.3
≥ 2500	44.5	85.8	87.1	91.0	92.3	93.6	94.2	95.5	95.5	96.1	96.1	96.1	96.1
≥ 2000	44.5	86.5	87.7	91.6	92.9	94.2	94.8	96.1	96.1	96.8	96.8	96.8	96.8
≥ 1800	45.2	87.7	89.0	93.6	95.5	96.8	96.8	98.1	98.1	99.4	99.4	99.4	99.4
≥ 1500	45.2	87.7	89.0	93.6	95.5	96.8	96.8	98.1	98.1	99.4	99.4	99.4	99.4
≥ 1200	45.2	87.7	89.0	93.6	95.5	96.8	96.8	98.1	98.1	99.4	99.4	99.4	99.4
≥ 1000	45.2	87.7	89.0	93.6	95.5	96.8	96.8	98.1	98.1	99.4	99.4	99.4	99.4
≥ 900	45.2	87.7	89.0	93.6	95.5	96.8	96.8	98.1	98.1	99.4	99.4	99.4	99.4
≥ 800	45.2	87.7	89.0	93.6	95.5	96.8	96.8	98.1	98.1	99.4	99.4	99.4	99.4
≥ 700	45.2	87.7	89.0	93.6	95.5	96.8	96.8	98.1	98.1	99.4	99.4	99.4	99.4
≥ 600	45.2	87.7	89.0	93.6	95.5	96.8	96.8	98.1	98.1	99.4	99.4	99.4	99.4
≥ 500	45.2	87.7	89.0	93.6	95.5	96.8	96.8	98.1	98.1	99.4	99.4	99.4	99.4
≥ 400	45.2	87.7	89.0	93.6	95.5	96.8	96.8	98.1	98.1	99.4	99.4	99.4	99.4
≥ 300	45.2	87.7	89.0	93.6	95.5	96.8	96.8	98.1	98.1	99.4	99.4	99.4	99.4
≥ 200	45.2	87.7	89.0	93.6	95.5	96.8	96.8	98.1	98.1	99.4	99.4	99.4	99.4
≥ 100	45.2	87.7	89.0	93.6	95.5	96.8	96.8	98.1	98.1	99.4	99.4	99.4	99.4
0	45.2	87.7	89.0	93.6	95.5	96.8	96.8	98.1	98.1	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATIONSANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

MAR
MONTH

16

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	33.6	58.1	59.4	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 20000	36.1	63.2	64.5	65.2	65.8	65.8	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1
≥ 18000	36.1	63.2	64.5	65.2	65.8	65.8	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1
≥ 16000	36.1	63.2	64.5	65.2	65.8	65.8	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1
≥ 14000	36.8	63.9	65.2	65.8	66.5	66.5	67.1	67.1	67.7	67.7	67.7	67.7	67.7	67.7
≥ 12000	36.8	64.5	65.8	66.5	67.1	67.1	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4
≥ 10000	38.1	66.5	67.7	68.4	69.0	69.0	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3
≥ 9000	38.1	66.5	67.7	68.4	69.0	69.0	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3
≥ 8000	38.7	67.1	68.4	69.0	69.7	69.7	70.3	70.3	71.0	71.0	71.6	71.6	71.6	71.6
≥ 7000	38.7	67.1	68.4	69.0	69.7	69.7	70.3	70.3	71.0	71.0	71.6	71.6	71.6	71.6
≥ 6000	38.7	67.7	69.0	69.7	70.3	70.3	71.0	71.0	71.6	71.6	72.3	72.3	72.3	72.3
≥ 5000	38.7	67.7	69.0	69.7	70.3	70.3	71.0	71.0	71.6	71.6	72.3	72.3	72.3	72.3
≥ 4500	40.7	70.3	71.6	72.3	72.9	72.9	74.2	74.2	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4000	41.3	72.3	73.6	74.2	74.8	74.8	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8
≥ 3500	41.9	74.8	76.1	76.8	77.4	77.4	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4
≥ 3000	42.6	81.3	82.6	83.2	83.9	83.9	85.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8
≥ 2500	46.5	86.5	87.7	88.4	89.0	89.0	90.3	90.3	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2000	47.1	90.3	91.6	92.3	92.9	92.9	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1800	47.1	91.6	92.9	93.6	94.2	94.2	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1500	47.7	94.8	96.1	96.8	97.4	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200	47.7	94.8	96.1	96.8	97.4	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	47.7	94.8	96.1	97.4	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	47.7	94.8	96.1	97.4	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	47.7	94.8	96.1	97.4	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	47.7	94.8	96.1	97.4	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	47.7	94.8	96.1	97.4	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	47.7	94.8	96.1	97.4	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	47.7	94.8	96.1	97.4	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	47.7	94.8	96.1	97.4	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	47.7	94.8	96.1	97.4	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	47.7	94.8	96.1	97.4	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
0	47.7	94.8	96.1	97.4	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION
03114STATION NAME
SANTA ANA, CALIFORNIAYEARS
73-77MONTH
MARPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)HOURS (LST)
19

CEILING (FEET)	VISIBILITY (STATUTE MILES)														≥ 0
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	
NO CEILING	18.7	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 20000	18.7	66.5	67.1	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 18000	18.7	66.5	67.1	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 16000	18.7	66.5	67.1	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 14000	18.7	66.5	67.1	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 12000	19.4	67.1	67.7	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 10000	20.0	69.0	69.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 9000	20.0	69.0	69.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
8000	20.0	70.3	71.0	72.3	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
7000	20.0	71.0	71.6	72.9	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
6000	20.0	71.6	72.3	73.6	74.2	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
5000	20.7	72.3	72.9	74.2	74.8	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
4500	21.3	74.2	74.8	76.1	76.8	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
4000	21.3	76.8	77.4	78.7	79.4	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
3500	21.3	78.7	79.4	80.7	81.3	81.3	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
3000	22.6	85.2	85.8	87.1	87.7	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
2500	23.9	89.0	89.7	91.0	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
2000	24.5	94.2	94.8	96.1	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
1800	24.5	94.8	95.5	96.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
1500	24.5	95.5	96.1	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1200	24.5	96.1	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
1000	24.5	96.8	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
900	24.5	96.8	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
800	24.5	96.8	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
700	24.5	96.8	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600	24.5	96.8	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	24.5	96.8	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	24.5	96.8	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	24.5	96.8	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	24.5	96.8	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	24.5	96.8	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	24.5	96.8	97.4	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

AD-A063 833

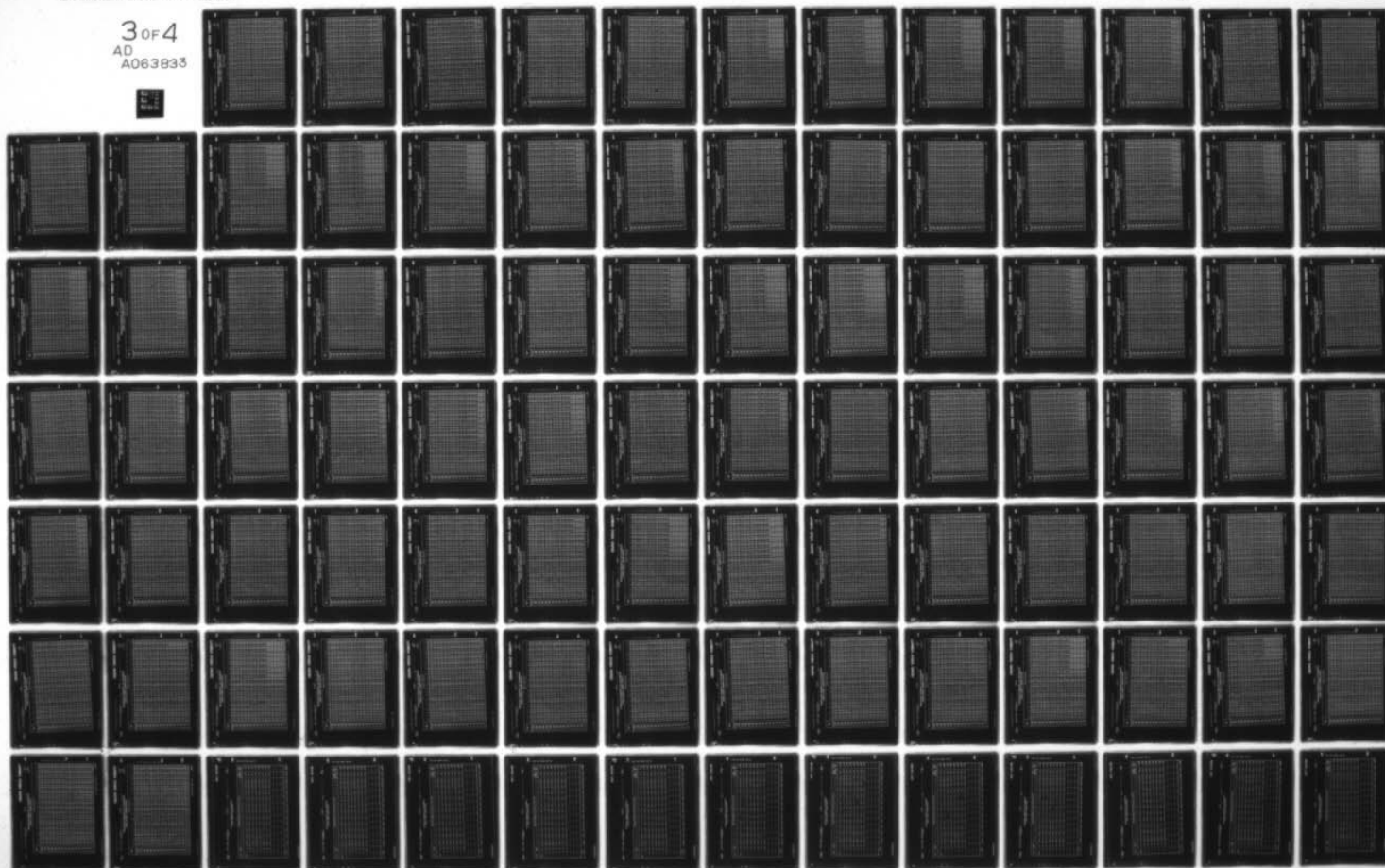
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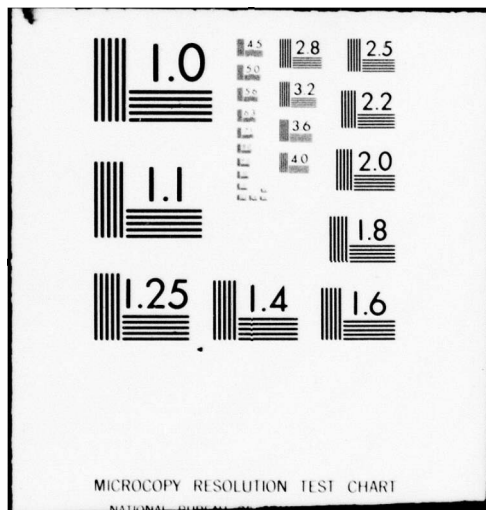
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CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

MAR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	16.8	67.1	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 20000	17.4	69.0	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 18000	17.4	69.0	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 16000	17.4	69.0	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 14000	17.4	69.7	69.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 12000	17.4	70.3	70.3	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 10000	17.4	70.3	70.3	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 9000	17.4	70.3	70.3	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 8000	18.7	73.6	73.6	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 7000	18.7	73.6	73.6	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 6000	18.7	73.6	73.6	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 5000	19.4	74.2	74.2	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 4500	19.4	74.2	74.2	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 4000	19.4	74.8	74.8	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 3500	19.4	78.7	78.7	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3000	20.0	84.5	84.5	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 2500	20.7	87.1	87.1	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 2000	21.3	91.6	91.6	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1800	21.3	92.3	92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1500	21.3	93.6	93.6	94.3	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1200	21.3	93.6	94.2	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000	21.3	94.2	94.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 900	21.3	94.2	94.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 800	21.3	94.8	95.5	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	21.3	94.8	95.5	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600	21.3	94.8	95.5	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500	21.3	94.8	95.5	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400	21.3	94.8	95.5	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	21.3	94.8	95.5	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	21.3	94.8	95.5	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	21.3	94.8	95.5	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0	21.3	94.8	95.5	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

SANTA ANA, CALIFORNIA

73-77

MAR

STATION NAME

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH
ALL

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	21.0	55.9	56.4	57.2	57.5	57.7	57.9	57.9	58.2	58.3	58.3	58.3	58.5
≥ 20000	21.9	58.6	59.0	60.0	60.6	60.7	61.1	61.4	61.5	61.9	61.9	61.9	62.1
≥ 18000	21.9	58.6	59.1	60.1	60.7	60.8	61.1	61.5	61.5	61.9	62.0	62.0	62.2
≥ 16000	21.9	58.6	59.1	60.1	60.7	60.8	61.1	61.5	61.5	61.9	62.0	62.0	62.2
≥ 14000	22.0	58.9	59.4	60.3	61.0	61.1	61.5	61.9	62.3	62.4	62.4	62.4	62.6
≥ 12000	22.3	59.7	60.2	61.1	61.8	61.9	62.3	62.7	63.2	63.3	63.3	63.3	63.5
≥ 10000	22.7	60.7	61.2	62.2	62.9	63.1	63.5	63.8	63.9	64.4	64.4	64.4	64.6
≥ 9000	22.7	60.7	61.2	62.2	62.9	63.1	63.5	63.8	63.9	64.4	64.4	64.4	64.6
≥ 8000	23.2	61.9	62.3	63.3	64.2	64.4	64.9	65.2	65.3	65.8	65.9	65.9	66.1
≥ 7000	23.2	62.3	62.7	63.9	64.6	64.8	65.3	65.7	66.2	66.3	66.3	66.3	66.5
≥ 6000	23.3	62.5	63.0	64.1	64.8	65.1	65.6	65.9	66.0	66.5	66.5	66.5	66.7
≥ 5000	23.5	62.9	63.5	64.6	65.3	65.6	66.1	66.4	66.5	66.9	67.0	67.0	67.2
≥ 4500	23.9	64.0	64.5	65.7	66.5	66.7	67.2	67.5	67.6	68.1	68.2	68.2	68.3
≥ 4000	24.4	65.8	66.4	67.5	68.3	68.6	69.0	69.4	69.4	69.9	70.0	70.0	70.2
≥ 3500	24.6	68.8	69.3	70.7	71.5	71.7	72.2	72.5	72.6	73.1	73.2	73.2	73.3
≥ 3000	26.5	76.0	77.0	78.2	79.0	79.4	79.8	80.2	80.2	80.7	80.8	80.8	81.0
≥ 2500	28.4	81.1	82.3	83.6	84.4	84.8	85.3	85.7	85.7	86.2	86.3	86.3	86.5
≥ 2000	29.4	85.9	87.2	88.6	89.5	89.9	90.6	90.9	91.0	91.5	91.5	91.5	91.7
≥ 1800	29.4	86.3	87.6	89.0	90.0	90.4	91.1	91.4	91.5	91.9	92.0	92.0	92.2
≥ 1500	29.8	88.3	89.8	91.6	92.8	93.2	94.0	94.4	94.4	94.9	95.0	95.0	95.2
≥ 1200	29.8	88.6	90.3	92.2	93.6	94.0	94.7	95.1	95.2	95.7	95.8	95.8	96.0
≥ 1000	29.8	89.6	91.3	93.3	94.8	95.2	96.0	96.4	96.5	97.0	97.1	97.1	97.3
≥ 900	29.9	89.7	91.5	93.6	95.2	95.6	96.3	96.7	96.9	97.3	97.4	97.4	97.6
≥ 800	29.9	89.8	91.6	93.7	95.3	95.7	96.5	96.9	97.1	97.6	97.7	97.7	97.9
≥ 700	29.9	89.9	91.7	93.8	95.4	95.8	96.6	97.0	97.3	97.9	98.1	98.1	98.3
≥ 600	29.9	89.9	91.7	93.8	95.4	95.8	96.6	97.1	97.3	98.1	98.3	98.3	98.6
≥ 500	29.9	89.9	91.7	93.8	95.5	95.9	96.8	97.3	97.6	98.3	98.6	98.6	99.0
≥ 400	29.9	89.9	91.7	93.9	95.6	96.0	96.9	97.4	97.7	98.4	98.7	98.7	99.1
≥ 300	29.9	89.9	91.7	94.0	95.7	96.1	96.9	97.5	97.7	98.5	98.8	98.8	99.5
≥ 200	29.9	89.9	91.7	94.0	95.7	96.1	96.9	97.5	97.7	98.5	98.8	98.8	99.8
≥ 100	29.9	89.9	91.7	94.0	95.7	96.1	96.9	97.5	97.7	98.5	98.8	98.8	99.3
0	29.9	89.9	91.7	94.0	95.7	96.1	96.9	97.5	97.7	98.5	98.8	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS

1240

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114

SANTA ANA, CALIFORNIA

73-77

APR

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

01

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	12.7	60.7	63.3	64.0	64.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	65.3
≥ 20000	12.7	60.7	63.3	64.0	64.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	65.3
≥ 18000	12.7	60.7	63.3	64.0	64.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	65.3
≥ 16000	12.7	60.7	63.3	64.0	64.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	65.3
≥ 14000	12.7	60.7	63.3	64.0	64.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	65.3
≥ 12000	12.7	60.7	63.3	64.0	64.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	65.3
≥ 10000	12.7	61.3	64.0	64.7	64.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	66.0
≥ 9000	12.7	61.3	64.0	64.7	64.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	66.0
≥ 8000	12.7	62.7	65.3	66.0	66.0	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.3
≥ 7000	12.7	62.7	65.3	66.0	66.0	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.3
≥ 6000	12.7	62.7	65.3	66.0	66.0	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.3
≥ 5000	12.7	64.0	66.7	67.3	67.3	67.3	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.7
≥ 4500	12.7	64.7	67.3	68.0	68.0	68.0	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	69.3
≥ 4000	12.7	66.7	69.3	70.0	70.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	71.3
≥ 3500	12.7	68.0	70.7	71.3	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.7
≥ 3000	12.7	70.7	73.3	74.0	74.0	74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	75.3
≥ 2500	12.7	77.3	80.0	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	82.0
≥ 2000	12.7	79.3	82.0	82.7	82.7	82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	84.7
≥ 1800	12.7	79.3	82.0	82.7	82.7	82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	84.7
≥ 1500	12.7	84.0	87.3	88.0	88.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	89.0
≥ 1200	12.7	85.3	88.7	89.3	89.3	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	91.3
≥ 1000	12.7	85.0	91.3	92.7	93.3	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	95.3
≥ 900	12.7	86.7	92.0	93.3	94.0	94.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	96.7
≥ 800	12.7	86.7	92.7	94.0	95.3	96.0	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	98.0
≥ 700	12.7	86.7	92.7	94.0	95.3	96.0	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	98.0
≥ 600	12.7	86.7	93.3	94.7	96.0	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.7
≥ 500	12.7	86.7	93.3	94.7	96.0	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.7
≥ 400	12.7	86.7	94.0	95.3	96.7	97.3	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
≥ 300	12.7	86.7	94.0	95.3	96.7	97.3	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
≥ 200	12.7	86.7	94.0	95.3	96.7	97.3	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
≥ 100	12.7	86.7	94.0	95.3	96.7	97.3	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
≥ 0	12.7	86.7	94.0	95.3	96.7	97.3	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

APR

MONTH

04

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	8.0	50.0	52.0	52.0	52.0	52.0	52.7	52.7	52.7	52.7	52.7	53.3	53.3
≥ 20000	8.0	50.0	52.0	52.0	52.0	52.0	52.7	52.7	52.7	52.7	52.7	53.3	53.3
≥ 18000	8.0	50.0	52.0	52.0	52.0	52.0	52.7	52.7	52.7	52.7	52.7	53.3	53.3
≥ 16000	8.0	50.0	52.0	52.0	52.0	52.0	52.7	52.7	52.7	52.7	52.7	53.3	53.3
≥ 14000	8.0	50.0	52.0	52.0	52.0	52.0	52.7	52.7	52.7	52.7	52.7	53.3	53.3
≥ 12000	8.0	50.7	52.7	52.7	52.7	52.7	53.3	53.3	53.3	53.3	53.3	54.0	54.0
≥ 10000	8.0	50.7	52.7	52.7	52.7	52.7	53.3	53.3	53.3	53.3	53.3	54.0	54.0
≥ 9000	8.0	50.7	52.7	52.7	52.7	52.7	53.3	53.3	53.3	53.3	53.3	54.0	54.0
≥ 8000	8.0	52.7	54.7	54.7	54.7	54.7	55.3	55.3	55.3	55.3	55.3	56.0	56.0
≥ 7000	8.0	53.3	55.3	55.3	55.3	55.3	56.0	56.0	56.0	56.0	56.0	56.7	56.7
≥ 6000	8.0	53.3	55.3	55.3	55.3	55.3	56.0	56.0	56.0	56.0	56.0	56.7	56.7
≥ 5000	8.0	55.3	57.3	57.3	57.3	57.3	58.0	58.0	58.0	58.0	58.0	58.7	58.7
≥ 4500	8.0	55.3	57.3	57.3	57.3	57.3	58.0	58.0	58.0	58.0	58.0	58.7	58.7
≥ 4000	8.7	58.0	60.0	60.0	60.0	60.0	60.7	60.7	60.7	60.7	60.7	61.3	61.3
≥ 3500	8.7	58.0	60.0	60.0	60.0	60.0	60.7	60.7	60.7	60.7	60.7	61.3	61.3
≥ 3000	8.7	64.7	66.7	66.7	66.7	66.7	67.3	67.3	67.3	67.3	67.3	68.0	68.0
≥ 2500	8.7	70.0	72.7	72.7	72.7	72.7	73.3	73.3	73.3	73.3	73.3	74.0	74.0
≥ 2000	8.7	72.7	76.0	76.0	76.0	76.0	77.3	77.3	77.3	77.3	77.3	78.0	78.0
≥ 1800	8.7	74.0	77.3	77.3	77.3	77.3	78.0	78.0	78.0	78.0	78.0	79.3	79.3
≥ 1500	8.7	77.3	80.7	80.7	80.7	81.3	82.0	82.0	82.0	82.0	82.0	82.7	82.7
≥ 1200	8.7	79.3	83.3	83.3	84.0	84.0	84.7	84.7	84.7	84.7	84.7	85.3	85.3
≥ 1000	8.7	82.0	86.7	86.7	87.3	87.3	88.0	88.0	88.0	88.0	88.0	88.7	88.7
≥ 900	8.7	82.0	86.7	87.3	88.0	88.0	88.7	88.7	88.7	88.7	88.7	89.3	89.3
≥ 800	8.7	82.0	87.3	88.0	88.7	88.7	89.3	89.3	89.3	89.3	89.3	90.0	90.0
≥ 700	8.7	82.7	88.0	88.7	89.3	89.3	90.0	90.0	90.0	90.0	90.0	90.7	90.7
≥ 600	8.7	83.3	89.3	90.0	91.3	91.3	92.0	92.0	92.0	92.0	92.0	92.7	92.7
≥ 500	8.7	83.3	89.3	90.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3	94.0	94.0
≥ 400	8.7	83.3	89.3	90.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3	94.0	94.0
≥ 300	8.7	83.3	89.3	90.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3	94.0	94.0
≥ 200	8.7	83.3	89.3	90.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3	94.0	94.0
≥ 100	8.7	83.3	89.3	90.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3	94.0	94.0
0	8.7	83.3	89.3	90.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3	94.0	94.0

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	16.0	45.3	49.3	50.0	50.0	50.0	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 20000	16.7	46.0	50.0	50.7	50.7	50.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 18000	16.7	46.0	50.0	50.7	50.7	50.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 16000	16.7	46.0	50.0	50.7	50.7	50.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 14000	16.7	46.0	50.0	50.7	50.7	50.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 12000	16.7	46.0	50.0	51.3	51.3	51.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 10000	17.3	46.7	50.7	52.0	52.0	52.0	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 9000	17.3	46.7	50.7	52.0	52.0	52.0	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 8000	17.3	47.3	51.3	52.7	52.7	52.7	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 7000	17.3	48.0	52.7	54.0	54.0	54.0	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 6000	17.3	48.0	52.7	54.0	54.0	54.0	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 5000	17.3	48.0	52.7	54.0	54.0	54.0	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 4500	18.0	48.7	53.3	54.7	54.7	54.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 4000	18.0	50.0	54.7	56.0	56.0	56.0	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 3500	18.0	52.7	58.0	59.3	59.3	59.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 3000	21.3	61.7	66.0	68.0	68.7	68.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 2500	22.7	64.7	70.0	72.0	72.7	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 2000	23.3	68.7	74.7	77.3	78.7	78.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 1800	23.3	70.0	76.0	78.7	80.0	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 1500	23.3	74.0	80.7	84.0	85.3	85.3	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 1200	23.3	74.7	81.3	84.7	86.7	86.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 1000	23.3	75.3	82.0	85.3	88.7	88.7	90.7	91.3	91.3	92.0	92.0	92.0	92.0
≥ 900	23.3	76.0	82.7	86.7	90.0	90.0	92.0	92.7	92.7	93.3	93.3	93.3	93.3
≥ 800	23.3	76.0	82.7	86.7	90.0	90.0	92.0	92.7	92.7	93.3	93.3	93.3	93.3
≥ 700	23.3	76.0	82.7	86.7	90.0	90.0	92.0	93.3	93.3	94.0	94.0	94.0	94.0
≥ 600	23.3	76.0	82.7	86.7	90.0	90.0	92.0	93.3	93.3	94.0	94.0	94.0	94.0
≥ 500	23.3	76.0	82.7	86.7	90.7	90.7	92.7	94.7	94.7	95.3	95.3	95.3	95.3
≥ 400	23.3	76.0	82.7	86.7	90.7	90.7	92.7	95.3	95.3	96.7	96.7	97.3	97.3
≥ 300	23.3	76.0	82.7	86.7	90.7	90.7	92.7	95.3	95.3	97.3	97.3	98.7	98.7
≥ 200	23.3	76.0	82.7	86.7	90.7	90.7	92.7	95.3	95.3	97.3	97.3	98.7	98.7
≥ 100	23.3	76.0	82.7	86.7	90.7	90.7	92.7	95.3	95.3	97.3	97.3	98.7	98.7
0	23.3	76.0	82.7	86.7	90.7	90.7	92.7	95.3	95.3	97.3	97.3	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	18.0	44.0	46.0	48.0	48.7	50.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 20000	19.3	45.3	47.3	49.3	50.0	51.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 18000	19.3	45.3	47.3	50.0	50.7	52.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 16000	19.3	45.3	47.3	50.0	50.7	52.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 14000	19.3	45.3	47.3	50.0	50.7	52.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 12000	19.3	46.7	48.7	51.3	52.0	53.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 10000	20.0	47.3	49.3	52.0	52.7	54.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 9000	20.0	47.3	49.3	52.0	52.7	54.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 8000	20.7	48.0	50.7	53.3	54.0	55.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 7000	20.7	48.7	51.3	54.0	54.7	56.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 6000	20.7	49.3	52.0	54.7	55.3	56.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 5000	20.7	51.3	54.0	56.7	57.3	58.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 4500	20.7	51.3	54.0	56.7	57.3	58.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 4000	20.7	52.0	54.7	57.3	58.0	59.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 3500	21.3	54.7	57.3	60.0	60.7	62.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 3000	24.0	64.0	66.7	70.0	70.7	72.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 2500	27.3	73.3	76.0	79.3	80.0	81.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 2000	27.3	78.0	80.7	84.7	85.3	86.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1800	27.3	78.7	81.3	84.0	86.7	88.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1500	28.0	82.0	86.0	91.3	92.7	94.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1200	28.0	82.0	86.0	91.3	92.7	94.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1000	28.0	82.0	86.0	91.3	92.7	94.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900	28.0	82.0	86.0	91.3	92.7	94.0	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800	28.0	82.0	86.0	91.3	92.7	94.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	28.0	82.0	86.0	91.3	92.7	94.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	28.0	82.0	86.0	91.3	92.7	94.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	28.0	82.0	86.0	91.3	92.7	94.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	28.0	82.0	86.0	91.3	92.7	94.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	28.0	82.0	86.0	91.3	92.7	94.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	28.0	82.0	86.0	91.3	92.7	94.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	28.0	82.0	86.0	91.3	92.7	94.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0
0	28.0	82.0	86.0	91.3	92.7	94.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATIONSANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

APR
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)13
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	25.3	56.0	62.0	67.7	65.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 20000	27.3	59.3	65.3	66.7	70.0	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 18000	27.3	60.0	66.0	67.3	70.7	72.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 16000	27.3	60.0	66.0	67.3	70.7	72.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 14000	27.3	60.7	66.7	68.0	71.3	72.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 12000	27.3	60.7	66.7	68.0	71.3	72.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 10000	28.7	62.0	68.0	70.0	73.3	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 9000	28.7	62.0	68.0	70.0	73.3	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 8000	28.7	62.0	68.0	70.0	73.3	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 7000	28.7	62.0	68.0	70.0	73.3	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 6000	28.7	62.0	68.0	70.0	73.3	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 5000	28.7	64.0	70.0	72.0	75.3	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4500	28.7	64.0	70.0	72.0	75.3	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4000	30.0	66.0	72.0	74.0	77.3	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 3500	30.0	68.0	74.0	76.0	79.3	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3000	31.3	73.3	79.3	81.3	84.7	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 2500	32.0	76.0	84.7	86.7	90.0	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 2000	32.7	82.7	89.3	91.3	94.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1800	33.3	83.3	90.0	92.0	95.3	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1500	33.3	85.3	92.0	94.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1200	33.3	85.3	92.0	94.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1000	33.3	85.3	92.0	94.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900	33.3	85.3	92.0	94.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800	33.3	85.3	92.0	94.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700	33.3	85.3	92.0	94.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600	33.3	85.3	92.0	94.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500	33.3	85.3	92.0	94.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	33.3	85.3	92.0	94.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	33.3	85.3	92.0	94.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200	33.3	85.3	92.0	94.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100	33.3	85.3	92.0	94.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 0	33.3	85.3	92.0	94.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

APR
MONTH

16
HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	30.7	67.3	70.0	71.3	72.7	73.3	73.3	73.3	73.3	73.3	73.3
≥ 20000	32.0	70.0	73.3	74.7	76.0	76.7	77.3	77.3	77.3	77.3	77.3
≥ 18000	32.0	71.3	74.7	76.0	77.3	78.0	78.7	78.7	78.7	78.7	78.7
≥ 16000	32.0	71.3	74.7	76.0	77.3	78.0	78.7	78.7	78.7	78.7	78.7
≥ 14000	32.0	72.7	76.0	77.3	78.7	79.3	80.0	80.0	80.0	80.0	80.0
≥ 12000	32.7	73.3	76.7	78.0	79.3	80.0	80.7	80.7	80.7	80.7	80.7
≥ 10000	32.7	73.3	76.7	78.0	79.3	80.0	80.7	80.7	80.7	80.7	80.7
≥ 9000	32.7	73.3	76.7	78.0	79.3	80.0	80.7	80.7	80.7	80.7	80.7
≥ 8000	32.7	73.3	76.7	78.0	79.3	80.0	80.7	80.7	80.7	80.7	80.7
≥ 7000	32.7	73.3	76.7	78.0	79.3	80.0	80.7	80.7	80.7	80.7	80.7
≥ 6000	32.7	73.3	76.7	78.0	79.3	80.0	80.7	80.7	80.7	80.7	80.7
≥ 5000	32.7	74.0	77.3	78.7	80.0	80.7	81.3	81.3	81.3	81.3	81.3
≥ 4500	32.7	74.7	78.0	79.3	80.7	81.3	82.0	82.0	82.0	82.0	82.0
≥ 4000	32.7	74.7	78.0	79.3	80.7	81.3	82.0	82.0	82.0	82.0	82.0
≥ 3500	33.3	77.3	80.7	82.0	83.3	84.0	84.7	84.7	84.7	84.7	84.7
≥ 3000	34.7	84.7	88.0	89.3	90.7	91.3	92.0	92.0	92.0	92.0	92.0
≥ 2500	34.7	87.3	92.0	93.3	94.7	95.3	96.0	96.0	96.0	96.0	96.0
≥ 2000	35.3	90.0	94.7	96.0	97.3	98.0	98.7	98.7	98.7	98.7	98.7
≥ 1800	35.3	90.0	94.7	96.0	97.3	98.0	98.7	98.7	98.7	98.7	98.7
≥ 1500	35.3	90.7	95.3	96.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3
≥ 1200	35.3	90.7	95.3	96.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0
≥ 1000	35.3	90.7	95.3	96.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0
≥ 900	35.3	90.7	95.3	96.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0
≥ 800	35.3	90.7	95.3	96.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0
≥ 700	35.3	90.7	95.3	96.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0
≥ 600	35.3	90.7	95.3	96.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0
≥ 500	35.3	90.7	95.3	96.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0
≥ 400	35.3	90.7	95.3	96.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0
≥ 300	35.3	90.7	95.3	96.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0
≥ 200	35.3	90.7	95.3	96.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0
≥ 100	35.3	90.7	95.3	96.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0
0	35.3	90.7	95.3	96.7	98.7	99.3	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

APR
MONTH

19

HOURS (L S Y)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	23.3	68.7	70.7	72.7	72.7	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 20000	23.3	70.7	72.7	74.7	74.7	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 18000	23.3	70.7	72.7	74.7	74.7	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 16000	23.3	70.7	72.7	74.7	74.7	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 14000	23.3	70.7	72.7	74.7	74.7	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 12000	23.3	70.7	72.7	74.7	74.7	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 10000	23.3	70.7	72.7	74.7	74.7	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 9000	23.3	70.7	72.7	74.7	74.7	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 8000	23.3	70.7	72.7	74.7	74.7	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 7000	23.3	71.3	73.3	75.3	75.3	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 6000	23.3	72.0	74.0	76.0	76.0	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 5000	24.0	73.3	75.3	77.3	77.3	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 4500	24.0	73.3	75.3	77.3	77.3	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 4000	24.0	73.3	75.3	77.3	77.3	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 3500	24.0	77.3	79.3	81.3	81.3	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 3000	25.3	83.3	86.0	88.0	88.0	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 2500	25.3	86.7	89.3	91.3	91.3	92.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 2000	25.3	88.0	90.7	93.3	93.3	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1800	25.3	88.0	90.7	93.3	93.3	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1500	25.3	90.7	93.3	96.0	96.0	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1200	25.3	90.7	93.3	96.0	96.0	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1000	25.3	90.7	94.0	96.7	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 900	25.3	90.7	94.0	96.7	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 800	25.3	90.7	94.0	96.7	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 700	25.3	90.7	94.0	96.7	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600	25.3	90.7	94.0	96.7	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 500	25.3	90.7	94.0	96.7	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 400	25.3	90.7	94.0	96.7	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 300	25.3	90.7	94.0	96.7	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 200	25.3	90.7	94.0	96.7	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 100	25.3	90.7	94.0	96.7	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
0	25.3	90.7	94.0	96.7	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SAITA ANA, CALIFORNIA
STATION NAME

73-77

YEAR

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	16.7	69.3	69.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 20000	16.7	70.0	70.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 18000	16.7	70.0	70.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 16000	16.7	70.0	70.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 14000	16.7	70.0	70.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 12000	16.7	70.0	70.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 10000	16.7	70.7	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 9000	16.7	70.7	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 8000	16.7	70.7	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 7000	16.7	70.7	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 6000	16.7	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 5000	16.7	71.3	71.3	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 4500	16.7	72.0	72.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 4000	16.7	74.0	74.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 3500	16.7	76.0	76.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 3000	16.7	78.7	79.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 2500	16.7	83.3	84.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 2000	17.3	86.0	87.3	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1800	17.3	86.0	87.3	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1500	17.3	88.7	91.3	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1200	17.3	89.3	92.7	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1000	17.3	90.0	94.0	95.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 900	17.3	90.0	94.0	95.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 800	17.3	90.0	94.0	96.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	17.3	90.0	94.0	96.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600	17.3	90.0	94.0	96.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500	17.3	90.0	94.0	96.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	17.3	90.0	94.0	96.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	17.3	90.0	94.0	96.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200	17.3	90.0	94.0	96.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100	17.3	90.0	94.0	96.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0	17.3	90.0	94.0	96.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114

SANTA ANA, CALIFORNIA

73-77

APR

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

MOON

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	18.8	57.7	60.3	61.3	61.9	62.4	63.1	63.1	63.1	63.1	63.1	63.1	63.2
≥ 20000	19.5	59.0	61.8	62.8	63.5	64.0	64.8	64.8	64.8	64.8	64.8	64.8	64.9
≥ 18000	19.5	59.3	62.0	63.2	63.8	64.3	65.2	65.2	65.2	65.2	65.2	65.2	65.3
≥ 16000	19.5	59.3	62.0	63.2	63.8	64.3	65.2	65.2	65.2	65.2	65.2	65.2	65.3
≥ 14000	19.5	59.5	62.3	63.4	64.1	64.6	65.4	65.4	65.4	65.4	65.4	65.4	65.5
≥ 12000	19.6	59.8	62.6	63.8	64.5	65.0	65.8	65.8	65.8	65.8	65.8	65.8	65.9
≥ 10000	19.9	60.3	63.1	64.4	65.1	65.6	66.4	66.4	66.4	66.4	66.4	66.4	66.5
≥ 9000	19.9	60.3	63.1	64.4	65.1	65.6	66.4	66.4	66.4	66.4	66.4	66.4	66.5
≥ 8000	20.0	60.9	63.8	65.1	65.8	66.3	67.1	67.1	67.1	67.1	67.1	67.1	67.2
≥ 7000	20.0	61.3	64.2	65.5	66.2	66.7	67.5	67.5	67.5	67.5	67.5	67.5	67.6
≥ 6000	20.0	61.5	64.4	65.8	66.4	66.9	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 5000	20.1	62.7	65.6	67.0	67.7	68.2	69.0	69.0	69.0	69.0	69.0	69.0	69.1
≥ 4500	20.2	63.0	65.9	67.3	68.0	68.5	69.3	69.3	69.3	69.3	69.3	69.3	69.4
≥ 4000	20.4	64.6	67.5	68.9	69.6	70.1	70.9	70.9	70.9	70.9	70.9	70.9	71.0
≥ 3500	20.6	66.5	69.5	70.9	71.6	72.1	72.9	72.9	72.9	72.9	72.9	72.9	73.0
≥ 3000	21.8	72.5	75.7	77.3	78.0	78.5	79.3	79.3	79.3	79.3	79.3	79.3	79.4
≥ 2500	22.5	77.6	81.1	82.7	83.4	83.9	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 2000	22.8	80.7	84.4	86.3	87.3	87.8	88.6	88.7	88.7	88.7	88.7	88.7	88.8
≥ 1800	22.9	81.2	84.9	86.8	87.8	88.3	89.2	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1500	23.0	84.1	88.3	90.4	91.5	92.0	92.9	93.0	93.0	93.0	93.0	93.0	93.1
≥ 1200	23.0	84.7	89.1	91.2	92.5	93.0	94.0	94.1	94.1	94.1	94.1	94.1	94.2
≥ 1000	23.0	85.3	90.2	92.3	94.2	94.7	96.0	96.3	96.3	96.5	96.5	96.5	96.6
≥ 900	23.0	85.4	90.3	92.7	94.5	95.1	96.4	96.8	96.8	97.0	97.0	97.0	97.1
≥ 800	23.0	85.4	90.5	92.9	94.8	95.5	96.8	97.2	97.3	97.4	97.4	97.4	97.5
≥ 700	23.0	85.5	90.6	93.1	95.0	95.7	97.0	97.4	97.5	97.7	97.7	97.7	97.8
≥ 600	23.0	85.6	90.8	93.3	95.3	96.0	97.3	97.8	97.9	98.1	98.1	98.2	98.2
≥ 500	23.0	85.6	90.8	93.4	95.6	96.3	97.7	98.3	98.5	98.5	98.5	98.6	98.6
≥ 400	23.0	85.6	90.9	93.5	95.7	96.3	97.8	98.5	98.6	98.8	98.8	98.9	98.9
≥ 300	23.0	85.6	90.9	93.5	95.7	96.3	97.8	98.6	98.7	99.0	99.0	99.1	99.1
≥ 200	23.0	85.6	90.9	93.5	95.7	96.3	97.8	98.6	98.7	99.0	99.0	99.1	99.1
≥ 100	23.0	85.6	90.9	93.5	95.7	96.3	97.8	98.6	98.7	99.1	99.1	99.2	99.2
0	23.0	85.6	90.9	93.5	95.7	96.3	97.8	98.6	98.7	99.1	99.1	99.2	99.3

TOTAL NUMBER OF OBSERVATIONS

1200

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	2.6	31.6	32.9	33.6	33.6	33.6	33.6	33.6	33.6	34.2	34.2	34.2	34.2
≥ 20000	2.6	31.6	32.9	33.6	33.6	33.6	33.6	33.6	33.6	34.2	34.2	34.2	34.2
≥ 18000	2.6	32.3	33.6	34.2	34.2	34.2	34.2	34.2	34.2	34.8	34.8	34.8	34.8
≥ 16000	2.6	32.3	33.6	34.2	34.2	34.2	34.2	34.2	34.2	34.8	34.8	34.8	34.8
≥ 14000	2.6	32.3	33.6	34.2	34.2	34.2	34.2	34.2	34.2	34.8	34.8	34.8	34.8
≥ 12000	2.6	32.3	33.6	34.2	34.2	34.2	34.2	34.2	34.2	34.8	34.8	34.8	34.8
≥ 10000	2.6	33.6	34.8	35.5	35.5	35.5	35.5	35.5	35.5	36.1	36.1	36.1	36.1
≥ 9000	2.6	33.6	34.8	35.5	35.5	35.5	35.5	35.5	35.5	36.1	36.1	36.1	36.1
≥ 8000	2.6	34.8	36.1	36.8	36.8	36.8	36.8	36.8	36.8	37.4	37.4	37.4	37.4
≥ 7000	2.6	34.8	36.1	36.8	36.8	36.8	36.8	36.8	36.8	37.4	37.4	37.4	37.4
≥ 6000	2.6	34.8	36.1	36.8	36.8	36.8	36.8	36.8	36.8	37.4	37.4	37.4	37.4
≥ 5000	2.6	36.8	38.1	38.7	38.7	38.7	38.7	38.7	38.7	39.4	39.4	39.4	39.4
≥ 4500	2.6	36.8	38.1	38.7	38.7	38.7	38.7	38.7	38.7	39.4	39.4	39.4	39.4
≥ 4000	2.6	38.1	39.4	40.0	40.0	40.0	40.0	40.0	40.0	40.7	40.7	40.7	40.7
≥ 3500	2.6	39.4	40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.9	41.9	41.9	41.9
≥ 3000	2.6	43.2	44.5	45.2	45.2	45.2	45.2	45.2	45.2	45.8	45.8	45.8	45.8
≥ 2500	2.6	52.3	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.8	54.8	54.8	54.8
≥ 2000	3.2	60.0	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.9	63.9	63.9	63.9
≥ 1800	3.2	60.7	63.2	63.9	63.9	63.9	63.9	63.9	63.9	64.5	64.5	64.5	64.5
≥ 1500	3.2	67.7	71.6	72.9	72.9	72.9	72.9	72.9	72.9	73.6	73.6	73.6	73.6
≥ 1200	3.2	72.9	77.4	78.7	78.7	78.7	78.7	78.7	78.7	80.0	80.0	80.0	80.0
≥ 1000	3.2	74.8	80.0	81.9	83.2	83.2	83.2	83.2	83.2	84.5	84.5	84.5	84.5
≥ 900	3.2	76.1	82.6	84.5	85.8	86.5	87.1	87.1	87.1	87.7	87.7	87.7	87.7
≥ 800	3.2	78.7	86.5	89.0	90.3	91.0	92.3	92.3	92.3	92.9	92.9	92.9	92.9
≥ 700	3.2	78.7	86.5	89.0	90.3	91.0	92.3	92.3	92.3	92.9	92.9	92.9	92.9
≥ 600	3.2	78.7	86.5	90.3	92.3	92.9	94.2	94.2	94.2	94.8	94.8	94.8	94.8
≥ 500	3.2	78.7	86.5	91.0	92.9	93.6	94.8	94.8	94.8	95.5	95.5	95.5	95.5
≥ 400	3.2	79.4	87.7	92.9	94.8	95.5	97.4	97.4	97.4	98.1	98.1	98.1	98.1
≥ 300	3.2	79.4	87.7	92.9	94.8	95.5	96.1	96.1	96.1	96.7	96.7	96.7	96.7
≥ 200	3.2	79.4	87.7	92.9	94.8	95.5	96.1	96.1	96.1	96.7	96.7	96.7	96.7
≥ 100	3.2	79.4	87.7	92.9	94.8	95.5	96.1	96.1	96.1	96.7	96.7	96.7	96.7
0	3.2	79.4	87.7	92.9	94.8	95.5	96.1	96.1	96.1	96.7	96.7	96.7	96.7

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

MAY

MONTH

04

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	2.6	23.9	25.2	25.8	25.8	25.8	26.5	26.5	26.5	27.1	27.1	27.1
≥ 20000	2.6	24.5	25.8	26.5	26.5	26.5	27.1	27.1	27.1	27.7	27.7	27.7
≥ 18000	2.6	24.5	25.8	26.5	26.5	26.5	27.1	27.1	27.1	27.7	27.7	27.7
≥ 16000	2.6	24.5	25.8	26.5	26.5	26.5	27.1	27.1	27.1	27.7	27.7	27.7
≥ 14000	2.6	24.5	25.8	26.5	26.5	26.5	27.1	27.1	27.1	27.7	27.7	27.7
≥ 12000	2.6	24.5	25.8	26.5	26.5	26.5	27.1	27.1	27.1	27.7	27.7	27.7
≥ 10000	2.6	25.2	26.5	27.1	27.1	27.1	27.7	27.7	27.7	28.4	28.4	28.4
≥ 9000	2.6	25.2	26.5	27.1	27.1	27.1	27.7	27.7	27.7	28.4	28.4	28.4
≥ 8000	2.6	25.8	27.1	27.7	27.7	27.7	28.4	28.4	28.4	29.0	29.0	29.0
≥ 7000	2.6	25.8	27.1	27.7	27.7	27.7	28.4	28.4	28.4	29.0	29.0	29.0
≥ 6000	2.6	25.8	27.1	27.7	27.7	27.7	28.4	28.4	28.4	29.0	29.0	29.0
≥ 5000	2.6	26.5	27.7	28.4	28.4	28.4	29.0	29.0	29.0	29.7	29.7	29.7
≥ 4500	2.6	26.5	27.7	28.4	28.4	28.4	29.0	29.0	29.0	29.7	29.7	29.7
≥ 4000	2.6	27.1	28.4	29.0	29.0	29.0	29.7	29.7	29.7	30.3	30.3	30.3
≥ 3500	3.2	32.9	34.2	34.8	34.8	34.8	35.5	35.5	35.5	36.1	36.1	36.1
≥ 3000	3.2	40.0	41.3	41.9	41.9	41.9	42.6	42.6	42.6	43.2	43.2	43.2
≥ 2500	3.2	51.6	52.9	53.6	53.6	53.6	54.2	54.2	54.2	54.8	54.8	54.8
≥ 2000	3.2	52.9	54.2	54.8	54.8	54.8	55.5	55.5	55.5	56.1	56.1	56.1
≥ 1800	3.2	61.9	64.5	65.2	65.8	65.8	66.5	66.5	66.5	67.1	67.1	67.1
≥ 1500	3.2	65.8	69.7	70.3	71.0	71.0	71.6	71.6	71.6	72.3	72.3	72.3
≥ 1200	3.2	69.7	74.2	77.4	79.4	79.4	80.0	80.0	80.0	80.7	80.7	80.7
≥ 900	3.2	70.3	75.5	79.4	81.9	81.9	82.6	82.6	82.6	83.2	83.2	83.2
≥ 800	3.2	71.0	76.8	81.3	83.9	83.9	84.5	85.2	85.2	85.8	85.8	85.8
≥ 700	3.2	71.6	78.1	83.2	86.5	86.5	87.1	87.1	87.1	87.7	87.7	87.7
≥ 600	3.2	71.6	78.1	83.9	87.1	87.1	87.7	88.4	88.4	89.0	89.0	89.0
≥ 500	3.2	71.6	78.7	85.2	88.4	88.4	89.0	89.0	89.0	89.7	89.7	89.7
≥ 400	3.2	71.6	78.7	85.8	89.0	89.0	91.0	92.3	92.3	92.9	92.9	92.9
≥ 300	3.2	71.6	78.7	85.8	89.7	89.7	91.6	93.6	94.2	94.8	94.8	94.8
≥ 200	3.2	71.6	78.7	85.8	89.7	89.7	91.6	93.6	95.5	96.8	96.8	96.8
≥ 100	3.2	71.6	78.7	85.8	89.7	89.7	91.6	93.6	96.1	98.1	98.1	98.1
0	3.2	71.6	78.7	85.8	89.7	89.7	91.6	93.6	96.1	98.1	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	5.8	18.2	19.5	19.5	20.8	20.8	20.8	20.8	20.8	21.4	21.4	21.4	21.4	21.4
≥ 20000	5.8	18.2	19.5	19.5	20.8	20.8	20.8	20.8	20.8	21.4	21.4	21.4	21.4	21.4
≥ 18000	5.8	18.2	19.5	19.5	20.8	20.8	20.8	20.8	20.8	21.4	21.4	21.4	21.4	21.4
≥ 16000	5.8	18.2	19.5	19.5	20.8	20.8	20.8	20.8	20.8	21.4	21.4	21.4	21.4	21.4
≥ 14000	5.8	18.2	19.5	19.5	20.8	20.8	20.8	20.8	20.8	21.4	21.4	21.4	21.4	21.4
≥ 12000	5.8	18.2	19.5	19.5	20.8	20.8	20.8	20.8	20.8	21.4	21.4	21.4	21.4	21.4
≥ 10000	5.8	18.2	19.5	19.5	20.8	20.8	20.8	20.8	20.8	21.4	21.4	21.4	21.4	21.4
≥ 9000	5.8	18.2	19.5	19.5	20.8	20.8	20.8	20.8	20.8	21.4	21.4	21.4	21.4	21.4
≥ 8000	5.8	18.2	19.5	19.5	20.8	20.8	20.8	20.8	20.8	21.4	21.4	21.4	21.4	21.4
≥ 7000	5.8	18.8	20.1	20.1	21.4	21.4	21.4	21.4	21.4	22.1	22.1	22.1	22.1	22.1
≥ 6000	5.8	18.8	20.1	20.1	21.4	21.4	21.4	21.4	21.4	22.1	22.1	22.1	22.1	22.1
≥ 5000	5.8	19.5	20.8	20.8	22.1	22.1	22.1	22.1	22.1	22.7	22.7	22.7	22.7	22.7
≥ 4500	5.8	19.5	20.8	20.8	22.1	22.1	22.1	22.1	22.1	22.7	22.7	22.7	22.7	22.7
≥ 4000	5.8	20.1	21.4	21.4	22.7	22.7	22.7	22.7	22.7	23.4	23.4	23.4	23.4	23.4
≥ 3500	5.8	20.8	22.1	22.1	23.4	23.4	23.4	23.4	23.4	24.0	24.0	24.0	24.0	24.0
≥ 3000	7.1	30.5	31.8	31.8	33.1	33.1	33.1	33.1	33.1	33.8	33.8	33.8	33.8	33.8
≥ 2500	7.8	34.4	35.7	35.7	37.0	37.0	37.0	37.0	37.0	38.3	38.3	38.3	38.3	38.3
≥ 2000	9.7	46.1	47.4	48.1	51.3	51.3	52.0	52.0	52.0	52.6	52.6	52.6	52.6	52.6
≥ 1800	9.7	46.8	48.7	49.4	52.6	52.6	53.3	53.3	53.3	53.9	53.9	53.9	53.9	53.9
≥ 1500	9.7	54.6	59.1	61.0	65.6	65.6	66.2	66.2	66.2	66.9	66.9	66.9	66.9	66.9
≥ 1200	9.7	57.1	63.0	66.2	73.4	74.0	75.3	76.0	76.0	76.6	76.6	76.6	76.6	76.6
≥ 1000	9.7	57.8	64.9	68.8	77.3	79.9	81.8	82.5	82.5	83.8	83.8	83.8	83.8	83.8
≥ 900	9.7	57.8	64.9	69.5	78.6	81.2	83.1	84.4	84.4	85.7	85.7	85.7	85.7	85.7
≥ 800	9.7	57.8	64.9	69.5	79.9	83.1	85.1	86.4	86.4	87.7	88.3	88.3	88.3	88.3
≥ 700	9.7	57.8	65.6	70.1	81.2	85.1	87.0	89.0	89.0	90.3	90.9	90.9	90.9	90.9
≥ 600	9.7	57.8	65.6	70.1	81.2	85.1	87.7	89.6	89.6	90.9	91.6	91.6	91.6	91.6
≥ 500	9.7	57.8	65.6	70.1	81.2	85.1	88.3	90.9	91.6	94.8	94.8	94.8	94.8	94.8
≥ 400	9.7	57.8	65.6	70.1	81.2	85.7	90.3	92.9	93.5	96.8	97.4	97.4	97.4	97.4
≥ 300	9.7	57.8	65.6	70.1	81.2	85.7	90.3	92.9	93.5	96.8	97.4	97.4	98.1	98.7
≥ 200	9.7	57.8	65.6	70.1	81.2	85.7	90.3	92.9	93.5	97.4	98.1	98.1	99.4	100.0
≥ 100	9.7	57.8	65.6	70.1	81.2	85.7	90.3	92.9	93.5	97.4	98.1	98.7	99.4	100.0
≥ 0	9.7	57.8	65.6	70.1	81.2	85.7	90.3	92.9	93.5	97.4	98.1	98.7	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS

154

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	7.7	25.8	27.1	29.0	34.8	38.1	41.3	41.9	42.6	42.6	42.6	42.6	42.6	42.6
≥ 20000	7.7	27.7	29.0	31.0	36.8	40.0	43.2	43.9	44.5	44.5	44.5	44.5	44.5	44.5
≥ 18000	7.7	27.7	29.0	31.0	36.8	40.0	43.2	43.9	44.5	44.5	44.5	44.5	44.5	44.5
≥ 16000	7.7	27.7	29.0	31.0	36.8	40.0	43.2	43.9	44.5	44.5	44.5	44.5	44.5	44.5
≥ 14000	7.7	27.7	29.0	31.0	36.8	40.0	43.2	43.9	44.5	44.5	44.5	44.5	44.5	44.5
≥ 12000	7.7	26.4	29.7	31.6	37.4	40.7	43.9	44.5	45.2	45.2	45.2	45.2	45.2	45.2
≥ 10000	8.4	29.7	31.0	32.9	38.7	41.9	45.2	45.8	46.5	46.5	46.5	46.5	46.5	46.5
≥ 9000	8.4	29.7	31.0	32.9	38.7	41.9	45.2	45.8	46.5	46.5	46.5	46.5	46.5	46.5
≥ 8000	8.4	30.3	31.6	33.6	39.4	42.6	45.8	46.5	47.1	47.1	47.1	47.1	47.1	47.1
≥ 7000	8.4	30.3	31.6	33.6	39.4	42.6	45.8	46.5	47.1	47.1	47.1	47.1	47.1	47.1
≥ 6000	8.4	30.3	31.6	33.6	39.4	42.6	45.8	46.5	47.1	47.1	47.1	47.1	47.1	47.1
≥ 5000	8.4	30.3	31.6	33.6	39.4	42.6	45.8	46.5	47.1	47.1	47.1	47.1	47.1	47.1
≥ 4500	8.4	31.0	32.3	34.2	40.0	43.2	46.5	47.1	47.7	47.7	47.7	47.7	47.7	47.7
≥ 4000	8.4	32.3	33.6	35.5	41.3	44.5	47.7	48.4	49.0	49.0	49.0	49.0	49.0	49.0
≥ 3500	8.4	34.2	35.5	37.4	43.2	46.5	49.7	50.3	51.0	51.0	51.0	51.0	51.0	51.0
≥ 3000	9.0	41.3	42.6	44.5	50.3	53.6	57.4	58.1	58.7	58.7	58.7	58.7	58.7	58.7
≥ 2500	11.0	51.0	52.3	54.2	60.0	63.2	67.1	67.7	68.4	68.4	68.4	68.4	68.4	68.4
≥ 2000	12.9	60.7	63.2	65.8	71.6	75.5	79.4	80.0	80.7	80.7	80.7	80.7	80.7	80.7
≥ 1800	13.6	62.6	65.2	67.7	73.6	77.4	81.3	81.9	82.6	82.6	82.6	82.6	82.6	82.6
≥ 1500	13.6	67.7	71.6	74.8	81.3	85.8	89.7	91.0	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1200	14.2	69.0	73.6	78.1	86.5	92.3	96.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000	14.2	69.7	74.8	79.4	87.7	93.6	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	14.2	69.7	74.8	79.4	87.7	93.6	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	14.2	69.7	74.8	79.4	87.7	93.6	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	14.2	69.7	74.8	79.4	87.7	93.6	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	14.2	69.7	74.8	79.4	87.7	93.6	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	14.2	69.7	74.8	79.4	87.7	93.6	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	14.2	69.7	74.8	79.4	87.7	93.6	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	14.2	69.7	74.8	79.4	87.7	93.6	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	14.2	69.7	74.8	79.4	87.7	93.6	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	14.2	69.7	74.8	79.4	87.7	93.6	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0
0	14.2	69.7	74.8	79.4	87.7	93.6	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0

155

TOTAL NUMBER OF OBSERVATIONS

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	11.0	47.7	52.3	56.1	61.9	63.2	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 20000	12.9	49.7	54.2	58.1	63.9	65.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 18000	12.9	49.7	54.2	58.1	63.9	65.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 16000	12.9	49.7	54.2	58.1	63.9	65.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 14000	12.9	49.7	54.2	58.1	63.9	65.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 12000	12.9	49.7	54.2	58.1	63.9	65.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 10000	12.9	50.3	54.8	58.7	64.5	65.8	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 9000	12.9	50.3	54.8	58.7	64.5	65.8	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 8000	12.9	50.3	54.8	58.7	64.5	65.8	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 7000	12.9	50.3	54.8	58.7	64.5	65.8	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 6000	12.9	50.3	54.8	58.7	64.5	65.8	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 5000	12.9	50.3	54.8	58.7	64.5	65.8	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 4500	12.9	51.6	56.1	60.0	65.8	67.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 4000	12.9	52.3	56.8	60.7	66.5	67.7	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 3500	12.9	54.2	58.7	62.6	68.4	69.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 3000	13.6	60.7	65.8	69.7	75.5	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 2500	14.8	69.0	74.2	78.1	84.5	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2000	14.8	73.6	78.7	82.6	89.0	91.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1800	15.5	74.2	79.4	83.2	89.7	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1500	16.1	77.4	83.2	87.1	93.6	96.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200	16.8	78.1	84.5	88.4	94.8	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	16.8	78.1	84.5	88.4	94.8	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	16.8	78.1	84.5	88.4	94.8	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	16.8	78.1	84.5	88.4	94.8	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	16.8	78.1	84.5	88.4	94.8	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	16.8	78.1	84.5	88.4	94.8	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	16.8	78.1	84.5	88.4	94.8	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	16.8	78.1	84.5	88.4	94.8	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	16.8	78.1	84.5	88.4	94.8	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	16.8	78.1	84.5	88.4	94.8	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	16.8	78.1	84.5	88.4	94.8	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	16.8	78.1	84.5	88.4	94.8	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	12.3	56.1	60.7	65.2	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 20000	12.9	58.1	63.2	67.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 18000	14.2	59.4	64.5	69.0	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 16000	14.2	59.4	64.5	69.0	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 14000	14.2	59.4	64.5	69.0	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 12000	14.2	60.0	65.2	69.7	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 10000	14.8	61.3	66.5	71.0	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 9000	14.8	61.3	66.5	71.0	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 8000	14.8	61.9	67.1	71.6	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 7000	14.8	61.9	67.1	71.6	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 6000	14.8	61.9	67.1	71.6	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 5000	14.8	61.9	67.1	71.6	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4500	14.8	62.6	67.7	72.3	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 4000	14.8	63.2	68.4	72.9	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 3500	14.8	63.9	69.0	73.6	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 3000	15.5	71.6	76.8	81.3	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 2500	16.8	76.8	81.9	86.5	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 2000	17.4	81.9	87.1	91.6	94.2	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1800	17.4	82.6	87.7	92.3	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1500	17.4	83.9	89.0	93.6	96.1	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1200	18.1	84.5	90.3	94.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000	18.7	85.2	91.0	95.5	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	18.7	85.2	91.0	95.5	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	18.7	85.2	91.0	95.5	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	18.7	85.2	91.0	95.5	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	18.7	85.2	91.0	95.5	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	18.7	85.2	91.0	95.5	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	18.7	85.2	91.0	95.5	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	18.7	85.2	91.0	95.5	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	18.7	85.2	91.0	95.5	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	18.7	85.2	91.0	95.5	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	18.7	85.2	91.0	95.5	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	6.4	54.8	59.4	61.9	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 20000	9.7	58.1	62.6	65.2	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 18000	10.3	58.7	63.2	65.8	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 16000	10.3	58.7	63.2	65.8	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 14000	10.3	58.7	63.2	65.8	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 12000	10.3	59.4	63.9	66.5	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 10000	10.3	60.0	64.5	67.1	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 9000	10.3	60.0	64.5	67.1	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 8000	10.3	60.0	64.5	67.1	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 7000	10.3	60.0	64.5	67.1	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 6000	10.3	60.0	64.5	67.1	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 5000	10.3	60.0	64.5	67.1	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 4500	10.3	60.7	65.2	67.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 4000	10.3	61.3	65.8	68.4	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 3500	10.3	61.9	66.5	69.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 3000	11.0	69.7	74.2	77.4	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 2500	11.6	77.4	82.6	85.8	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 2000	11.6	79.4	84.5	87.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1800	11.6	79.4	84.5	87.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1500	12.3	83.9	89.0	92.3	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1200	12.3	84.5	89.7	93.6	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000	12.3	84.5	90.3	94.2	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1
≥ 900	12.3	84.5	90.3	94.2	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800	12.3	85.2	91.0	94.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	12.3	85.2	91.0	94.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	12.3	85.2	91.0	94.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	12.3	85.2	91.0	94.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	12.3	85.2	91.0	94.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	12.3	85.2	91.0	94.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200	12.3	85.2	91.0	94.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100	12.3	85.2	91.0	94.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 0	12.3	85.2	91.0	94.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

MAY

MORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22

HOURLY (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	3.3	42.2	43.5	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 20000	3.9	44.8	46.1	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
AI 18000	3.9	44.8	46.1	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
AI 16000	3.9	44.8	46.1	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
AI 14000	3.9	44.8	46.1	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
AI 12000	3.9	44.8	46.1	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
AI 10000	3.9	46.1	47.4	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
AI 9000	3.9	46.1	47.4	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
AI 8000	3.9	46.8	48.1	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
AI 7000	3.9	46.8	48.1	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
AI 6000	3.9	46.8	48.1	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
AI 5000	3.9	47.4	48.7	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
AI 4500	4.6	48.1	49.4	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
AI 4000	4.6	50.0	51.3	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
AI 3500	4.6	51.3	52.6	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
AI 3000	4.6	54.6	56.5	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
AI 2500	4.6	61.7	63.6	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
AI 2000	4.6	70.8	72.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
AI 1800	4.6	77.9	80.5	84.4	84.4	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
AI 1500	4.6	80.5	83.1	87.0	87.0	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
AI 1200	4.6	82.5	85.1	89.0	89.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
AI 1000	4.6	85.1	87.7	92.2	93.5	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
AI 900	4.6	86.4	89.6	94.2	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
AI 800	4.6	87.0	90.3	96.1	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
AI 700	4.6	87.0	90.3	96.1	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
AI 600	4.6	87.0	90.3	96.1	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
AI 500	4.6	87.0	90.3	96.1	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
AI 400	4.6	87.0	90.3	96.1	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
AI 300	4.6	87.0	90.3	96.1	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
AI 200	4.6	87.0	90.3	96.1	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
AI 100	4.6	87.0	90.3	96.1	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
AI AI	4.6	87.0	90.3	96.1	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

154

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

TEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	6.7	37.6	40.1	42.2	44.4	45.1	45.7	45.8	45.9	46.1	46.1	46.1	46.1	46.1
≥ 20000	7.3	39.1	41.7	43.8	46.0	46.7	47.3	47.4	47.5	47.7	47.7	47.7	47.7	47.7
≥ 18000	7.5	39.4	42.0	44.1	46.3	47.0	47.7	47.7	47.8	48.1	48.1	48.1	48.1	48.1
≥ 16000	7.5	39.4	42.0	44.1	46.3	47.0	47.7	47.7	47.8	48.1	48.1	48.1	48.1	48.1
≥ 14000	7.5	39.4	42.0	44.1	46.3	47.0	47.7	47.7	47.8	48.1	48.1	48.1	48.1	48.1
≥ 12000	7.5	39.7	42.3	44.4	46.5	47.3	47.9	48.0	48.1	48.3	48.3	48.3	48.3	48.3
≥ 10000	7.7	40.6	43.1	45.2	47.4	48.1	48.8	48.9	49.0	49.2	49.2	49.2	49.2	49.2
≥ 9000	7.7	40.6	43.1	45.2	47.4	48.1	48.8	48.9	49.0	49.2	49.2	49.2	49.2	49.2
≥ 8000	7.7	41.0	43.6	45.7	47.9	48.6	49.3	49.4	49.4	49.7	49.7	49.7	49.7	49.7
≥ 7000	7.7	41.1	43.7	45.8	48.0	48.7	49.4	49.4	49.5	49.8	49.8	49.8	49.8	49.8
≥ 6000	7.7	41.1	43.7	45.8	48.0	48.7	49.4	49.4	49.5	49.8	49.8	49.8	49.8	49.8
≥ 5000	7.7	41.6	44.2	46.3	48.5	49.2	49.8	49.9	50.0	50.2	50.2	50.2	50.2	50.2
≥ 4500	7.8	42.1	44.7	46.8	49.0	49.7	50.3	50.4	50.5	50.7	50.7	50.7	50.7	50.7
≥ 4000	7.8	43.1	45.6	47.7	49.9	50.7	51.3	51.4	51.5	51.7	51.7	51.7	51.7	51.7
≥ 3500	7.8	44.3	46.9	49.0	51.1	51.9	52.5	52.6	52.7	52.9	52.9	52.9	52.9	52.9
≥ 3000	8.3	50.6	53.3	55.5	57.7	58.4	59.1	59.2	59.3	59.5	59.5	59.5	59.5	59.5
≥ 2500	9.1	57.8	60.7	62.8	65.1	65.8	66.6	66.7	66.8	67.0	67.0	67.0	67.0	67.0
≥ 2000	9.7	65.5	68.7	71.0	73.5	74.4	75.3	75.4	75.4	75.7	75.7	75.7	75.7	75.7
≥ 1800	9.9	66.2	69.5	71.8	74.3	75.2	76.1	76.2	76.3	76.5	76.5	76.5	76.5	76.5
≥ 1500	10.0	71.9	76.1	78.9	81.7	82.9	83.9	84.1	84.2	84.4	84.4	84.4	84.4	84.4
≥ 1200	10.3	74.1	78.9	82.2	85.6	87.0	88.4	88.6	88.7	88.9	88.9	88.9	88.9	88.9
≥ 1000	10.3	75.3	80.6	84.3	88.4	90.0	91.5	91.6	91.8	92.2	92.2	92.2	92.2	92.2
≥ 900	10.3	75.9	81.4	85.4	89.7	91.5	93.1	93.4	93.5	93.8	93.8	93.8	93.8	93.8
≥ 800	10.3	76.5	82.4	86.5	91.0	92.9	94.5	94.9	95.0	95.3	95.4	95.4	95.4	95.4
≥ 700	10.3	76.7	82.7	87.2	91.9	93.9	95.5	96.0	96.1	96.5	96.5	96.5	96.5	96.5
≥ 600	10.3	76.7	82.7	87.3	92.1	94.0	95.7	96.3	96.4	96.7	96.8	96.8	96.8	96.8
≥ 500	10.3	76.7	82.9	87.7	92.5	94.7	96.5	97.1	97.3	97.7	97.8	97.8	97.8	97.8
≥ 400	10.3	76.7	83.0	88.1	92.8	95.1	97.2	98.0	98.1	98.7	98.9	98.9	98.9	98.9
≥ 300	10.3	76.7	83.0	88.1	92.9	95.2	97.4	98.2	98.4	99.0	99.2	99.4	99.4	99.4
≥ 200	10.3	76.7	83.0	88.1	92.9	95.2	97.4	98.3	98.5	99.3	99.4	99.7	99.7	99.8
≥ 100	10.3	76.7	83.0	88.1	92.9	95.2	97.4	98.3	98.5	99.3	99.4	99.7	99.7	99.8
≥ 0	10.3	76.7	83.0	88.1	92.9	95.2	97.4	98.3	98.5	99.3	99.4	99.7	99.7	99.8

TOTAL NUMBER OF OBSERVATIONS

1238

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	6.0	40.7	42.0	42.0	42.0	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 20000	6.0	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 18000	6.0	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 16000	6.0	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 14000	6.0	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 12000	6.0	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 10000	6.0	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 9000	6.0	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 8000	6.0	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 7000	6.0	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 6000	6.0	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 5000	6.0	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 4500	6.0	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 4000	6.7	42.0	44.0	44.0	44.0	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 3500	6.7	42.7	44.7	44.7	44.7	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 3000	6.7	43.3	45.3	45.3	45.3	46.0	46.0	46.0	46.0	46.0	46.0	46.0
≥ 2500	6.7	44.7	46.7	46.7	46.7	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 2000	6.7	50.0	52.0	52.0	52.0	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 1800	7.3	50.7	52.7	52.7	52.7	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 1500	7.3	60.7	63.3	63.3	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 1200	7.3	66.0	70.7	72.0	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 1000	7.3	72.7	78.7	81.3	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 900	7.3	74.0	80.0	83.3	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 800	7.3	75.3	82.0	86.0	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 700	7.3	75.3	82.0	87.3	92.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 600	7.3	75.3	82.0	87.3	92.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 500	7.3	75.3	82.7	88.0	94.7	96.0	96.0	96.7	96.7	96.7	96.7	96.7
≥ 400	7.3	75.3	82.7	88.0	95.3	96.7	97.3	98.0	98.0	98.0	98.0	98.0
≥ 300	7.3	75.3	82.7	88.0	95.3	96.7	97.3	98.0	98.0	98.0	98.0	98.0
≥ 200	7.3	75.3	82.7	88.0	95.3	97.3	98.0	98.7	98.7	98.7	98.7	98.7
≥ 100	7.3	75.3	82.7	88.0	95.3	97.3	98.0	98.7	98.7	98.7	98.7	98.7
≥ 0	7.3	75.3	82.7	88.0	95.3	97.3	98.0	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	4.7	26.0	27.3	28.0	28.7	28.7	28.7	28.7	28.7	28.7	29.3	29.3	29.3	29.3	29.3
≥ 20000	4.7	26.7	28.0	28.7	29.3	29.3	29.3	29.3	29.3	29.3	30.0	30.0	30.0	30.0	30.0
≥ 18000	4.7	26.7	28.0	28.7	29.3	29.3	29.3	29.3	29.3	29.3	30.0	30.0	30.0	30.0	30.0
≥ 16000	4.7	26.7	28.0	28.7	29.3	29.3	29.3	29.3	29.3	29.3	30.0	30.0	30.0	30.0	30.0
≥ 14000	4.7	26.7	28.0	28.7	29.3	29.3	29.3	29.3	29.3	29.3	30.0	30.0	30.0	30.0	30.0
≥ 12000	4.7	27.3	28.7	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.7	30.7	30.7	30.7	30.7
≥ 10000	4.7	27.3	28.7	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.7	30.7	30.7	30.7	30.7
≥ 9000	4.7	27.3	28.7	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.7	30.7	30.7	30.7	30.7
≥ 8000	4.7	27.3	28.7	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.7	30.7	30.7	30.7	30.7
≥ 7000	4.7	27.3	28.7	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.7	30.7	30.7	30.7	30.7
≥ 6000	4.7	27.3	28.7	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.7	30.7	30.7	30.7	30.7
≥ 5000	4.7	27.3	28.7	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.7	30.7	30.7	30.7	30.7
≥ 4500	4.7	27.3	28.7	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.7	30.7	30.7	30.7	30.7
≥ 4000	4.7	28.7	30.0	30.7	31.3	31.3	31.3	31.3	31.3	31.3	32.0	32.0	32.0	32.0	32.0
≥ 3500	4.7	29.3	30.7	31.3	32.0	32.0	32.0	32.0	32.0	32.0	32.7	32.7	32.7	32.7	32.7
≥ 3000	4.7	30.7	32.0	32.7	33.3	33.3	33.3	33.3	33.3	33.3	34.0	34.0	34.0	34.0	34.0
≥ 2500	4.7	32.7	34.0	34.7	35.3	35.3	35.3	35.3	35.3	35.3	36.0	36.0	36.0	36.0	36.0
≥ 2000	4.7	35.7	38.7	39.3	40.0	40.0	40.0	40.0	40.0	40.0	40.7	40.7	40.7	40.7	40.7
≥ 1800	5.3	38.7	41.3	42.0	42.7	42.7	42.7	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3
≥ 1500	5.3	46.7	50.0	50.7	51.3	51.3	51.3	51.3	51.3	51.3	52.0	52.0	52.0	52.0	52.0
≥ 1200	5.3	50.0	53.3	54.7	56.0	56.0	56.0	56.0	56.0	56.0	56.7	56.7	56.7	56.7	56.7
≥ 1000	5.3	58.0	62.7	66.0	70.7	70.7	72.0	72.0	72.0	72.0	72.7	72.7	72.7	72.7	72.7
≥ 900	5.3	58.7	63.3	68.7	73.3	73.3	74.7	74.7	74.7	74.7	75.3	75.3	75.3	75.3	75.3
≥ 800	5.3	60.0	65.3	71.3	78.0	78.0	79.3	79.3	79.3	79.3	80.0	80.0	80.0	80.0	80.0
≥ 700	5.3	60.0	66.0	72.0	80.0	80.0	82.0	82.0	82.0	82.0	82.7	82.7	82.7	82.7	82.7
≥ 600	5.3	60.0	66.7	73.3	82.7	82.7	84.7	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3
≥ 500	5.3	61.3	68.0	75.3	85.3	85.3	88.7	89.3	89.3	91.3	92.0	92.0	92.7	92.7	92.7
≥ 400	5.3	62.0	69.3	76.7	86.7	86.7	90.0	90.7	90.7	93.3	94.0	94.7	94.7	94.7	94.7
≥ 300	5.3	62.0	69.3	76.7	86.7	86.7	90.0	90.7	90.7	93.3	94.7	95.3	95.3	95.3	95.3
≥ 200	5.3	62.0	69.3	76.7	86.7	86.7	90.0	90.7	90.7	93.3	95.3	96.0	96.0	96.0	96.0
≥ 100	5.3	62.0	69.3	76.7	86.7	86.7	90.0	90.7	90.7	93.3	95.3	96.0	96.0	96.0	96.0
≥ 0	5.3	62.0	69.3	76.7	86.7	86.7	90.0	90.7	90.7	93.3	95.3	96.0	96.0	96.0	96.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	4.7	18.0	18.7	20.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	23.3	23.3
≥ 20000	4.7	18.7	19.3	21.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	24.0	24.0
≥ 18000	4.7	18.7	19.3	21.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	24.0	24.0
≥ 16000	4.7	18.7	19.3	21.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	24.0	24.0
≥ 14000	4.7	18.7	19.3	21.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	24.0	24.0
≥ 12000	4.7	18.7	19.3	21.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	24.0	24.0
≥ 10000	4.7	18.7	19.3	21.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	24.0	24.0
≥ 9000	4.7	18.7	19.3	21.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	24.0	24.0
≥ 8000	4.7	19.3	20.0	22.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.7	24.7
≥ 7000	4.7	19.3	20.0	22.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.7	24.7
≥ 6000	4.7	19.3	20.0	22.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.7	24.7
≥ 5000	4.7	20.0	20.7	22.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	25.3	25.3
≥ 4500	4.7	20.7	21.3	23.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	26.0	26.0
≥ 4000	4.7	20.7	21.3	23.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	26.0	26.0
≥ 3500	4.7	21.3	22.0	24.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.7	26.7
≥ 3000	4.7	21.3	22.0	24.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.7	26.7
≥ 2500	6.0	24.0	24.7	27.3	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.7	30.7
≥ 2000	6.7	28.0	28.7	32.7	36.7	37.3	37.3	37.3	37.3	37.3	37.3	38.0	38.0
≥ 1800	6.7	28.7	29.3	33.3	37.3	38.0	38.0	38.0	38.0	38.0	38.0	38.7	38.7
≥ 1500	6.7	36.0	38.7	44.0	50.0	50.7	52.0	52.0	52.0	52.0	52.0	52.7	52.7
≥ 1200	6.7	36.0	38.7	44.7	51.3	52.0	56.0	56.7	56.7	56.7	56.7	57.3	57.3
≥ 1000	6.7	39.3	43.3	52.0	63.3	66.0	70.7	72.7	73.3	73.3	73.3	74.0	74.0
≥ 900	6.7	40.0	44.0	52.7	64.7	67.3	72.7	74.7	75.3	76.0	76.0	76.7	76.7
≥ 800	6.7	40.0	44.0	52.7	66.0	69.3	76.7	81.3	82.0	82.7	82.7	83.3	83.3
≥ 700	6.7	40.0	44.7	53.3	67.3	71.3	78.7	84.7	85.3	86.7	87.3	88.0	88.0
≥ 600	6.7	40.0	44.7	53.3	67.3	71.3	79.3	86.7	88.0	90.0	90.7	91.3	91.3
≥ 500	6.7	40.0	44.7	54.0	68.0	72.7	80.7	88.0	89.3	92.0	92.7	94.0	94.0
≥ 400	6.7	40.0	44.7	54.0	68.0	72.7	80.7	89.3	90.7	93.3	95.3	97.3	98.0
≥ 300	6.7	40.0	44.7	54.0	68.0	72.7	80.7	89.3	90.7	93.3	95.3	97.3	98.0
≥ 200	6.7	40.0	44.7	54.0	68.0	72.7	80.7	89.3	90.7	93.3	95.3	97.3	98.0
≥ 100	6.7	40.0	44.7	54.0	68.0	72.7	80.7	89.3	90.7	93.3	95.3	97.3	98.0
0	6.7	40.0	44.7	54.0	68.0	72.7	80.7	89.3	90.7	93.3	95.3	97.3	98.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JUN

MOUTH

10

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING	7.3	31.3	38.0	40.7	45.3	50.7	53.3	54.0	54.0	54.0	54.0	54.0
≥ 20000	7.3	33.3	40.0	42.7	48.0	53.3	56.7	58.0	58.0	58.0	58.0	58.0
≥ 18000	7.3	33.3	40.0	42.7	48.0	53.3	56.7	58.0	58.0	58.0	58.0	58.0
≥ 16000	7.3	33.3	40.0	42.7	48.0	53.3	56.7	58.0	58.0	58.0	58.0	58.0
≥ 14000	7.3	33.3	40.0	42.7	48.0	53.3	56.7	58.0	58.0	58.0	58.0	58.0
≥ 12000	7.3	34.0	41.3	44.0	49.3	54.7	58.0	59.3	59.3	59.3	59.3	59.3
≥ 10000	7.3	34.0	41.3	44.0	49.3	54.7	58.0	59.3	59.3	59.3	59.3	59.3
≥ 9000	7.3	34.0	41.3	44.0	49.3	54.7	58.0	59.3	59.3	59.3	59.3	59.3
≥ 8000	7.3	34.0	41.3	44.0	49.3	54.7	58.0	59.3	59.3	59.3	59.3	59.3
≥ 7000	7.3	34.0	41.3	44.0	49.3	54.7	58.0	59.3	59.3	59.3	59.3	59.3
≥ 6000	7.3	34.0	41.3	44.0	49.3	54.7	58.0	59.3	59.3	59.3	59.3	59.3
≥ 5000	8.0	35.3	42.7	45.3	50.7	56.0	59.3	60.7	60.7	60.7	60.7	60.7
≥ 4500	8.0	35.3	42.7	45.3	50.7	56.0	59.3	60.7	60.7	60.7	60.7	60.7
≥ 4000	8.0	35.3	42.7	45.3	50.7	56.0	59.3	60.7	60.7	60.7	60.7	60.7
≥ 3500	8.0	35.3	42.7	45.3	50.7	56.0	59.3	60.7	60.7	60.7	60.7	60.7
≥ 3000	8.0	38.0	45.3	48.0	53.3	58.7	62.0	63.3	63.3	63.3	63.3	63.3
≥ 2500	8.0	40.7	48.0	50.7	56.0	61.3	64.7	66.0	66.0	66.0	66.0	66.0
≥ 2000	8.0	48.0	56.0	59.3	65.3	70.7	74.7	76.0	76.0	76.0	76.0	76.0
≥ 1800	8.7	48.7	56.7	60.0	66.0	71.3	75.3	76.7	76.7	76.7	76.7	76.7
≥ 1500	8.7	52.0	61.3	64.7	74.7	83.3	88.0	89.3	89.3	89.3	89.3	89.3
≥ 1200	8.7	52.7	62.0	65.3	78.7	88.0	94.0	95.3	95.3	95.3	95.3	95.3
≥ 1000	8.7	52.7	62.0	66.0	80.0	89.3	96.0	98.0	98.0	98.0	98.0	98.0
≥ 900	8.7	52.7	62.0	66.0	80.0	89.3	96.0	98.0	98.0	98.0	98.0	98.0
≥ 800	8.7	52.7	62.0	66.0	80.0	90.0	96.0	98.0	98.0	98.0	98.0	98.0
≥ 700	8.7	52.7	62.0	66.0	80.0	90.7	97.3	99.3	99.3	99.3	99.3	99.3
≥ 600	8.7	52.7	62.0	66.0	80.0	90.7	97.3	99.3	99.3	99.3	99.3	99.3
≥ 500	8.7	52.7	62.0	66.0	80.0	90.7	97.3	99.3	99.3	99.3	99.3	99.3
≥ 400	8.7	52.7	62.0	66.0	80.0	90.7	97.3	99.3	99.3	99.3	99.3	99.3
≥ 300	8.7	52.7	62.0	66.0	80.0	90.7	97.3	99.3	99.3	99.3	99.3	99.3
≥ 200	8.7	52.7	62.0	66.0	80.0	90.7	97.3	99.3	99.3	99.3	99.3	99.3
≥ 100	8.7	52.7	62.0	66.0	80.0	90.7	97.3	99.3	99.3	99.3	99.3	99.3
0	8.7	52.7	62.0	66.0	80.0	90.7	97.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEAR

JUN
MONTH

13
HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														≥ 0
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	
NO CEILING	10.0	53.3	61.3	68.0	75.3	76.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 20000	10.0	54.0	62.7	69.3	76.7	78.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 18000	10.0	55.3	64.0	70.7	78.0	80.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 16000	10.0	55.3	64.0	70.7	78.0	80.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 14000	10.0	55.3	64.0	70.7	78.0	80.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 12000	10.0	55.3	64.0	70.7	78.0	80.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 10000	10.0	56.7	65.3	72.0	79.3	81.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 9000	10.0	56.7	65.3	72.0	79.3	81.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 8000	10.0	56.7	65.3	72.0	79.3	81.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 7000	10.0	56.7	65.3	72.0	79.3	81.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 6000	10.0	56.7	65.3	72.0	79.3	81.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 5000	10.7	57.3	66.0	72.7	80.0	82.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 4500	10.7	57.3	66.0	72.7	80.0	82.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 4000	10.7	57.3	66.0	72.7	80.0	82.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 3500	10.7	58.7	67.3	74.0	81.3	83.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 3000	10.7	59.3	68.0	74.7	82.0	84.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 2500	11.3	62.7	71.3	78.0	85.3	87.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 2000	12.0	65.3	74.0	80.7	88.7	90.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1800	12.0	65.3	74.0	80.7	88.7	90.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1500	12.0	68.0	76.7	84.0	92.7	94.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1200	12.0	69.3	78.7	86.0	94.7	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000	12.0	69.3	79.3	86.7	96.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	12.0	69.3	79.3	86.7	96.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	12.0	69.3	79.3	86.7	96.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	12.0	69.3	79.3	86.7	96.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	12.0	69.3	79.3	86.7	96.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	12.0	69.3	79.3	86.7	96.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	12.0	69.3	79.3	86.7	96.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	12.0	69.3	79.3	86.7	96.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	12.0	69.3	79.3	86.7	96.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	12.0	69.3	79.3	86.7	96.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	12.0	69.3	79.3	86.7	96.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JUN
MONTH

16
HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	16.7	71.3	74.7	77.3	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 20000	16.7	74.0	77.3	80.7	84.0	84.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 18000	16.7	74.7	78.0	81.3	84.7	84.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 16000	16.7	75.3	78.7	82.0	85.3	85.3	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 14000	16.7	75.3	78.7	82.0	85.3	85.3	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 12000	16.7	76.0	79.3	82.7	86.0	86.0	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 10000	16.7	76.0	80.0	83.3	86.7	86.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 9000	16.7	76.0	80.0	83.3	86.7	86.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 8000	16.7	76.7	80.7	84.0	87.3	87.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 7000	16.7	77.3	81.3	84.7	88.0	88.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 6000	16.7	77.3	81.3	84.7	88.0	88.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 5000	17.3	78.0	82.0	85.3	88.7	88.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 4500	17.3	78.0	82.0	85.3	88.7	88.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 4000	17.3	78.0	82.0	85.3	88.7	88.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 3500	17.3	78.7	82.7	86.0	89.3	89.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 3000	17.3	78.7	83.3	86.7	90.0	90.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 2500	18.0	80.7	85.3	88.7	92.0	92.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 2000	18.7	83.3	88.0	91.3	94.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1800	18.7	83.3	88.0	91.3	94.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1500	18.7	86.7	91.3	94.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1200	18.7	86.7	91.3	94.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1000	18.7	86.7	91.3	94.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900	18.7	86.7	91.3	94.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800	18.7	86.7	91.3	94.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700	18.7	86.7	91.3	94.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600	18.7	86.7	91.3	94.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500	18.7	86.7	91.3	94.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	18.7	86.7	91.3	94.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	18.7	86.7	91.3	94.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200	18.7	86.7	91.3	94.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100	18.7	86.7	91.3	94.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0	18.7	86.7	91.3	94.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	20.0	70.7	71.3	74.7	77.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 20000	20.0	72.0	73.3	76.7	80.7	80.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 18000	20.0	72.0	73.3	76.7	80.7	80.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 16000	20.0	72.0	73.3	76.7	80.7	80.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 14000	20.0	72.0	73.3	76.7	80.7	80.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 12000	20.0	72.7	74.0	77.3	81.3	81.3	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 10000	20.0	72.7	74.7	78.0	82.0	82.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 9000	20.0	72.7	74.7	78.0	82.0	82.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 8000	20.0	72.7	74.7	78.0	82.0	82.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 7000	20.0	72.7	74.7	78.0	82.0	82.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 6000	20.0	72.7	74.7	78.0	82.0	82.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 5000	20.0	72.7	74.7	78.0	82.0	82.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 4500	20.0	72.7	74.7	78.0	82.0	82.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 4000	20.0	74.0	76.0	79.3	83.3	83.3	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 3500	20.0	74.7	76.7	80.0	84.0	84.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 3000	20.0	76.0	78.7	82.0	86.0	86.0	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 2500	20.0	77.3	80.0	83.3	87.3	87.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 2000	20.7	78.7	82.0	85.3	89.3	89.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1800	20.7	80.0	83.3	86.7	91.3	91.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1500	20.7	82.7	86.0	89.3	94.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1200	20.7	84.7	88.0	91.3	96.7	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000	20.7	85.3	88.7	92.0	97.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900	20.7	86.0	89.3	92.7	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	20.7	86.0	89.3	92.7	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	20.7	86.0	89.3	92.7	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	20.7	86.0	89.3	92.7	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	20.7	86.0	89.3	92.7	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	20.7	86.0	89.3	92.7	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	20.7	86.0	89.3	92.7	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	20.7	86.0	89.3	92.7	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	20.7	86.0	89.3	92.7	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	20.7	86.0	89.3	92.7	98.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	8.0	54.7	56.0	58.0	58.0	58.0	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 20000	8.0	56.7	58.0	60.7	60.7	61.3	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 18000	8.0	56.7	58.0	60.7	60.7	61.3	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 16000	8.0	56.7	58.0	60.7	60.7	61.3	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 14000	8.0	56.7	58.0	60.7	60.7	61.3	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 12000	8.0	57.3	58.7	61.3	61.3	62.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 10000	8.0	57.3	58.7	61.3	61.3	62.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 9000	8.0	57.3	58.7	61.3	61.3	62.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 8000	8.0	57.3	58.7	62.0	62.0	62.7	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 7000	8.0	57.3	58.7	62.0	62.0	62.7	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 6000	8.0	57.3	58.7	62.0	62.0	62.7	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 5000	8.0	57.3	58.7	62.0	62.0	62.7	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 4500	8.0	57.3	58.7	62.0	62.0	62.7	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 4000	8.0	58.0	59.3	62.7	62.7	63.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 3500	8.0	58.0	59.3	62.7	62.7	63.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 3000	8.0	59.3	60.7	64.0	64.0	64.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 2500	8.0	63.3	64.7	68.0	68.0	68.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 2000	8.7	69.3	70.7	74.0	74.0	74.7	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 1800	8.7	69.3	70.7	74.0	74.7	75.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 1500	8.7	74.7	76.0	79.3	80.7	81.3	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 1200	8.7	77.3	78.7	82.0	84.0	84.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 1000	8.7	85.3	86.7	91.3	93.3	94.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 900	8.7	86.0	87.3	92.7	95.3	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 800	8.7	86.0	87.3	94.0	96.7	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700	8.7	86.0	87.3	94.0	96.7	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600	8.7	86.0	87.3	94.0	96.7	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500	8.7	86.0	87.3	94.0	97.3	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	8.7	86.0	87.3	94.0	97.3	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	8.7	86.0	87.3	94.0	97.3	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	8.7	86.0	87.3	94.0	97.3	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	8.7	86.0	87.3	94.0	97.3	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	8.7	86.0	87.3	94.0	97.3	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
MOON (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 5/16	≥ 1/4
NO CEILING	9.7	45.8	48.7	51.2	53.8	54.7	55.4	55.5	55.5	55.5	55.6	55.7	55.7	55.7
≥ 20000	9.7	47.1	50.2	52.8	55.7	56.8	57.9	58.1	58.1	58.1	58.2	58.3	58.3	58.3
≥ 18000	9.7	47.3	50.4	53.1	55.9	57.0	58.2	58.3	58.3	58.4	58.4	58.5	58.5	58.5
≥ 16000	9.7	47.4	50.5	53.2	56.0	57.1	58.3	58.4	58.4	58.4	58.5	58.6	58.6	58.6
≥ 14000	9.7	47.4	50.5	53.2	56.0	57.1	58.3	58.4	58.4	58.4	58.5	58.6	58.6	58.6
≥ 12000	9.7	47.8	51.0	53.7	56.5	57.6	58.8	58.9	58.9	58.9	59.0	59.1	59.1	59.1
≥ 10000	9.7	48.0	51.3	54.0	56.8	57.9	59.1	59.3	59.3	59.3	59.3	59.4	59.4	59.4
≥ 9000	9.7	48.0	51.3	54.0	56.8	57.9	59.1	59.3	59.3	59.3	59.3	59.4	59.4	59.4
≥ 8000	9.7	48.2	51.5	54.3	57.1	58.2	59.3	59.5	59.5	59.5	59.6	59.7	59.7	59.7
≥ 7000	9.7	48.3	51.6	54.3	57.2	58.3	59.4	59.6	59.6	59.6	59.7	59.8	59.8	59.8
≥ 6000	9.7	48.3	51.6	54.3	57.2	58.3	59.4	59.6	59.6	59.6	59.7	59.8	59.8	59.8
≥ 5000	9.9	48.7	52.0	54.8	57.6	58.7	59.8	60.0	60.0	60.0	60.1	60.2	60.2	60.2
≥ 4500	9.9	48.8	52.1	54.9	57.7	58.8	59.9	60.1	60.1	60.1	60.2	60.3	60.3	60.3
≥ 4000	10.0	49.3	52.7	55.4	58.3	59.3	60.5	60.7	60.7	60.7	60.8	60.8	60.8	60.8
≥ 3500	10.0	49.8	53.3	56.0	58.8	59.9	61.1	61.3	61.3	61.3	61.3	61.4	61.4	61.4
≥ 3000	10.0	50.8	54.4	57.2	60.0	61.1	62.3	62.4	62.4	62.4	62.5	62.6	62.6	62.6
≥ 2500	10.3	53.3	56.8	59.7	62.5	63.7	64.8	65.0	65.0	65.0	65.1	65.2	65.2	65.2
≥ 2000	10.8	57.4	61.3	64.3	67.6	68.8	70.0	70.2	70.2	70.2	70.3	70.3	70.3	70.3
≥ 1800	11.0	58.1	62.0	65.1	68.5	69.7	70.9	71.1	71.1	71.1	71.2	71.3	71.3	71.3
≥ 1500	11.0	63.4	67.9	71.3	75.9	77.5	79.0	79.2	79.2	79.2	79.3	79.3	79.3	79.3
≥ 1200	11.0	65.3	70.2	73.8	79.4	81.2	83.2	83.4	83.4	83.4	83.5	83.6	83.6	83.6
≥ 1000	11.0	68.7	74.1	78.8	85.7	87.7	90.1	90.6	90.7	90.7	90.8	90.8	90.8	90.8
≥ 900	11.0	69.2	74.6	79.7	86.8	88.8	91.3	91.8	91.8	91.9	92.0	92.1	92.1	92.1
≥ 800	11.0	69.5	75.1	80.5	88.1	90.3	93.0	93.8	93.9	94.0	94.1	94.2	94.2	94.2
≥ 700	11.0	69.5	75.3	80.8	88.7	91.1	93.9	94.9	95.0	95.2	95.3	95.4	95.4	95.4
≥ 600	11.0	69.5	75.3	81.0	89.0	91.4	94.3	95.5	95.7	95.9	96.1	96.2	96.2	96.2
≥ 500	11.0	69.7	75.6	81.4	89.8	92.3	95.3	96.7	96.8	97.4	97.6	97.8	97.8	97.8
≥ 400	11.0	69.8	75.8	81.6	90.0	92.5	95.7	97.3	97.4	98.1	98.4	98.8	98.8	98.9
≥ 300	11.0	69.8	75.8	81.6	90.0	92.5	95.7	97.3	97.4	98.2	98.6	98.9	99.0	99.5
≥ 200	11.0	69.8	75.8	81.6	90.0	92.6	95.8	97.3	97.5	98.3	98.8	99.2	99.3	99.8
≥ 100	11.0	69.8	75.8	81.6	90.0	92.6	95.8	97.3	97.5	98.3	98.8	99.2	99.3	99.9
0	11.0	69.8	75.8	81.6	90.0	92.6	95.8	97.3	97.5	98.3	98.8	99.2	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 1200

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	7	41.9	45.8	46.5	46.5	47.1	47.7	48.4	48.4	48.4	48.4	48.4	48.4
≥ 20000	7	41.9	45.8	46.5	46.5	47.1	47.7	48.4	48.4	48.4	48.4	48.4	48.4
≥ 18000	7	41.9	45.8	46.5	46.5	47.1	47.7	48.4	48.4	48.4	48.4	48.4	48.4
≥ 16000	7	41.9	45.8	46.5	46.5	47.1	47.7	48.4	48.4	48.4	48.4	48.4	48.4
≥ 14000	7	41.9	45.8	46.5	46.5	47.1	47.7	48.4	48.4	48.4	48.4	48.4	48.4
≥ 12000	7	42.6	46.5	47.1	47.1	47.7	48.4	49.0	49.0	49.0	49.0	49.0	49.0
≥ 10000	7	43.2	47.1	47.7	47.7	48.4	49.0	49.7	49.7	49.7	49.7	49.7	49.7
≥ 9000	7	43.2	47.1	47.7	47.7	48.4	49.0	49.7	49.7	49.7	49.7	49.7	49.7
≥ 8000	7	43.9	47.7	48.4	48.4	49.0	49.7	50.3	50.3	50.3	50.3	50.3	50.3
≥ 7000	7	44.5	48.4	49.0	49.0	49.7	50.3	51.0	51.0	51.0	51.0	51.0	51.0
≥ 6000	7	44.5	48.4	49.0	49.0	49.7	50.3	51.0	51.0	51.0	51.0	51.0	51.0
≥ 5000	7	44.5	48.4	49.0	49.0	49.7	50.3	51.0	51.0	51.0	51.0	51.0	51.0
≥ 4500	7	44.5	48.4	49.0	49.0	49.7	50.3	51.0	51.0	51.0	51.0	51.0	51.0
≥ 4000	7	44.5	48.4	49.0	49.0	49.7	50.3	51.0	51.0	51.0	51.0	51.0	51.0
≥ 3500	7	44.5	48.4	49.0	49.0	49.7	50.3	51.0	51.0	51.0	51.0	51.0	51.0
≥ 3000	7	45.2	49.0	49.7	49.7	50.3	51.0	51.6	51.6	51.6	51.6	51.6	51.6
≥ 2500	7	45.8	49.7	50.3	50.3	51.0	51.6	52.3	52.3	52.3	52.3	52.3	52.3
≥ 2000	1.3	48.4	52.3	52.9	52.9	53.6	54.2	54.8	54.8	54.8	54.8	54.8	54.8
≥ 1800	1.3	48.4	52.3	52.9	52.9	53.6	54.2	54.8	54.8	54.8	54.8	54.8	54.8
≥ 1500	1.3	56.8	61.9	62.6	63.2	63.9	64.5	65.2	65.2	65.2	65.2	65.2	65.2
≥ 1200	1.3	62.6	69.7	71.0	72.3	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 1000	1.9	70.3	79.4	81.3	83.2	83.9	86.5	87.1	87.1	87.1	87.1	87.1	87.1
≥ 900	1.9	72.9	81.9	83.9	85.8	86.5	89.0	89.7	89.7	89.7	89.7	89.7	89.7
≥ 800	1.9	75.5	85.2	88.4	90.3	91.0	93.6	94.2	94.2	94.2	94.2	94.2	94.2
≥ 700	1.9	76.8	87.1	91.6	93.6	94.2	96.8	97.4	97.4	97.4	97.4	97.4	97.4
≥ 600	1.9	76.8	87.1	91.6	94.2	94.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1
≥ 500	1.9	76.8	87.1	91.6	94.2	94.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1
≥ 400	1.9	77.4	87.7	92.3	96.1	96.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	1.9	77.4	87.7	92.3	96.1	96.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	1.9	77.4	87.7	92.3	96.1	96.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	1.9	77.4	87.7	92.3	96.1	96.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	1.9	77.4	87.7	92.3	96.1	96.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77
YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	1.3	25.2	30.3	31.0	31.6	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 20000	1.3	25.2	30.3	31.0	31.6	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 18000	1.3	25.2	30.3	31.0	31.6	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 16000	1.3	25.2	31.0	31.6	32.3	32.3	32.9	32.9	32.9	32.9	32.9	32.9	32.9
≥ 14000	1.3	25.2	31.0	31.6	32.3	32.3	32.9	32.9	32.9	32.9	32.9	32.9	32.9
≥ 12000	1.3	25.2	31.6	32.3	32.9	32.9	33.6	33.6	33.6	33.6	33.6	33.6	33.6
≥ 10000	1.3	25.2	31.6	32.3	32.9	32.9	33.6	33.6	33.6	33.6	33.6	33.6	33.6
≥ 9000	1.3	25.8	32.3	32.9	33.6	33.6	34.2	34.2	34.2	34.2	34.2	34.2	34.2
≥ 8000	1.3	25.8	32.3	32.9	33.6	33.6	34.2	34.2	34.2	34.2	34.2	34.2	34.2
≥ 7000	1.3	26.5	32.9	33.6	34.2	34.2	34.8	34.8	34.8	34.8	34.8	34.8	34.8
≥ 6000	1.3	26.5	32.9	33.6	34.2	34.2	34.8	34.8	34.8	34.8	34.8	34.8	34.8
≥ 5000	1.3	26.5	32.9	33.6	34.2	34.2	34.8	34.8	34.8	34.8	34.8	34.8	34.8
≥ 4500	1.3	27.1	33.6	34.2	34.8	34.8	35.5	35.5	35.5	35.5	35.5	35.5	35.5
≥ 4000	1.3	27.1	33.6	34.2	34.8	34.8	35.5	35.5	35.5	35.5	35.5	35.5	35.5
≥ 3500	1.3	27.7	34.8	35.5	36.1	36.1	36.8	36.8	36.8	36.8	36.8	36.8	36.8
≥ 3000	1.3	27.7	35.5	36.1	36.8	36.8	37.4	37.4	37.4	37.4	37.4	37.4	37.4
≥ 2500	1.3	30.3	38.1	38.7	39.4	39.4	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 2000	1.3	31.6	39.4	40.0	40.7	40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 1800	1.3	41.9	51.0	51.6	52.3	52.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 1500	1.3	47.1	58.1	58.7	60.0	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 1200	1.9	56.1	70.3	72.3	74.2	74.2	76.1	78.1	78.7	78.7	78.7	78.7	78.7
≥ 1000	1.9	56.8	72.3	74.8	76.8	76.8	78.7	80.7	81.3	81.3	81.3	81.3	81.3
≥ 900	1.9	59.4	77.4	80.7	83.2	85.2	87.1	87.7	87.7	87.7	87.7	87.7	87.7
≥ 800	1.9	60.0	78.1	81.3	83.9	86.5	89.0	89.7	89.7	89.7	89.7	89.7	89.7
≥ 700	1.9	61.3	80.0	83.9	86.4	91.0	94.2	94.8	94.8	94.8	94.8	94.8	94.8
≥ 600	1.9	61.3	80.0	83.9	89.7	92.3	95.5	96.1	96.8	96.8	96.8	96.8	96.8
≥ 500	1.9	61.3	80.0	83.9	90.3	93.6	96.8	97.4	98.1	98.1	98.1	98.1	98.1
≥ 400	1.9	61.3	80.0	83.9	90.3	93.6	96.8	97.4	98.1	98.1	98.1	98.1	98.1
≥ 300	1.9	61.3	80.0	83.9	90.3	93.6	96.8	97.4	98.1	98.1	98.1	98.1	98.1
≥ 200	1.9	61.3	80.0	83.9	90.3	93.6	96.8	97.4	98.1	98.1	98.1	98.1	98.1
≥ 100	1.9	61.3	80.0	83.9	90.3	93.6	96.8	97.4	98.1	98.1	98.1	98.1	98.1
0	1.9	61.3	80.0	83.9	90.3	93.6	96.8	97.4	98.1	98.1	98.1	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS 155

2

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JUL
MONTH

07
HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	1.9	12.9	18.7	20.7	25.2	25.2	25.8	25.8	25.8	26.5	26.5	27.1	27.1	27.1
≥ 20000	1.9	14.8	20.7	22.6	27.1	27.1	27.7	27.7	27.7	28.4	28.4	29.0	29.0	29.0
≥ 18000	1.9	14.8	20.7	22.6	27.1	27.1	27.7	27.7	27.7	28.4	28.4	29.0	29.0	29.0
≥ 16000	1.9	15.5	21.3	23.2	27.7	27.7	28.4	28.4	28.4	29.0	29.0	29.7	29.7	29.7
≥ 14000	1.9	15.5	21.3	23.2	29.0	29.0	29.7	29.7	29.7	30.3	30.3	31.0	31.0	31.0
≥ 12000	1.9	15.5	21.9	23.9	29.7	29.7	30.3	30.3	30.3	31.0	31.0	31.6	31.6	31.6
≥ 10000	1.9	16.1	22.6	24.5	30.3	30.3	31.0	31.0	31.0	31.6	31.6	32.3	32.3	32.3
≥ 9000	1.9	16.1	22.6	24.5	30.3	30.3	31.0	31.0	31.0	31.6	31.6	32.3	32.3	32.3
≥ 8000	1.9	16.1	22.6	24.5	30.3	30.3	31.0	31.0	31.0	31.6	31.6	32.3	32.3	32.3
≥ 7000	1.9	16.1	22.6	24.5	30.3	30.3	31.0	31.0	31.0	31.6	31.6	32.3	32.3	32.3
≥ 6000	1.9	16.1	22.6	24.5	30.3	30.3	31.0	31.0	31.0	31.6	31.6	32.3	32.3	32.3
≥ 5000	1.9	16.1	22.6	24.5	30.3	30.3	31.0	31.0	31.0	31.6	31.6	32.3	32.3	32.3
≥ 4500	1.9	16.1	22.6	24.5	30.3	30.3	31.0	31.0	31.0	31.6	31.6	32.3	32.3	32.3
≥ 4000	1.9	16.1	22.6	24.5	30.3	30.3	31.0	31.0	31.0	31.6	31.6	32.3	32.3	32.3
≥ 3500	1.9	16.1	22.6	24.5	30.3	30.3	31.0	31.0	31.0	31.6	31.6	32.3	32.3	32.3
≥ 3000	1.9	16.8	23.2	25.2	31.0	31.0	31.6	31.6	31.6	32.3	32.3	32.9	32.9	32.9
≥ 2500	1.9	18.1	24.5	27.1	32.9	32.9	33.6	33.6	33.6	34.2	34.2	34.8	34.8	34.8
≥ 2000	3.2	21.3	27.7	30.3	36.1	36.1	36.8	36.8	36.8	37.4	37.4	38.1	38.1	38.1
≥ 1800	3.2	21.9	29.0	32.3	38.1	38.1	38.7	38.7	38.7	39.4	39.4	40.0	40.0	40.0
≥ 1500	3.2	31.0	38.1	43.2	50.3	51.0	51.6	51.6	51.6	52.3	52.3	52.9	52.9	52.9
≥ 1200	3.2	36.1	43.9	51.6	60.7	63.9	65.2	65.2	65.2	65.8	65.8	66.5	66.5	66.5
≥ 1000	3.2	39.4	50.3	60.0	71.0	74.8	78.7	80.0	80.7	81.3	81.3	81.9	81.9	81.9
≥ 900	3.2	39.4	50.3	60.0	72.3	76.8	80.7	81.9	82.6	84.5	84.5	85.2	85.2	85.2
≥ 800	3.2	40.0	51.6	61.9	74.2	80.7	84.5	85.8	86.5	88.4	88.4	89.0	89.0	89.0
≥ 700	3.2	40.0	52.3	62.6	76.1	82.6	86.5	89.0	89.7	91.6	91.6	92.3	92.3	92.3
≥ 600	3.2	40.0	52.3	62.6	76.8	83.2	88.4	91.6	92.3	94.2	94.2	94.8	94.8	94.8
≥ 500	3.2	40.0	52.3	62.6	77.4	83.9	89.0	92.3	92.9	95.5	95.5	96.1	96.1	96.1
≥ 400	3.2	40.0	52.3	62.6	77.4	84.5	89.7	92.9	93.6	96.1	96.1	96.8	96.8	96.8
≥ 300	3.2	40.0	52.3	62.6	77.4	84.5	89.7	92.9	93.6	96.1	96.8	97.4	97.4	97.4
≥ 200	3.2	40.0	52.3	62.6	77.4	84.5	89.7	92.9	93.6	96.1	97.4	98.1	98.1	98.1
≥ 100	3.2	40.0	52.3	62.6	77.4	84.5	89.7	92.9	93.6	96.1	97.4	98.1	98.1	98.1
≥ 0	3.2	40.0	52.3	62.6	77.4	84.5	89.7	92.9	93.6	96.1	97.4	98.1	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS 135

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	5.2	38.1	46.5	55.5	63.9	64.5	69.0	70.3	71.0	71.0	71.0	71.0	71.0
≥ 20000	5.2	40.0	49.0	58.1	66.5	67.1	71.6	72.9	73.6	73.6	73.6	73.6	73.6
≥ 18000	5.2	40.0	49.0	58.1	66.5	67.1	71.6	72.9	73.6	73.6	73.6	73.6	73.6
≥ 16000	5.2	40.0	49.0	58.1	66.5	67.1	71.6	72.9	73.6	73.6	73.6	73.6	73.6
≥ 14000	6.5	41.3	50.3	59.4	68.4	69.0	73.6	74.8	75.5	75.5	75.5	75.5	75.5
≥ 12000	6.5	42.6	51.6	61.3	70.3	71.0	75.5	76.8	77.4	77.4	77.4	77.4	77.4
≥ 10000	6.5	43.9	52.9	62.6	72.3	72.9	77.4	78.7	79.4	79.4	79.4	79.4	79.4
≥ 9000	6.5	43.9	52.9	62.6	72.3	72.9	77.4	78.7	79.4	79.4	79.4	79.4	79.4
≥ 8000	6.5	43.9	52.9	62.6	72.3	72.9	77.4	78.7	79.4	79.4	79.4	79.4	79.4
≥ 7000	6.5	43.9	53.6	63.2	72.9	73.6	78.1	79.4	80.0	80.0	80.0	80.0	80.0
≥ 6000	6.5	43.9	53.6	63.2	72.9	73.6	78.1	79.4	80.0	80.0	80.0	80.0	80.0
≥ 5000	6.5	43.9	53.6	63.2	72.9	73.6	78.1	79.4	80.0	80.0	80.0	80.0	80.0
≥ 4500	6.5	43.9	53.6	63.2	72.9	73.6	78.1	79.4	80.0	80.0	80.0	80.0	80.0
≥ 4000	6.5	43.9	53.6	63.2	72.9	73.6	78.1	79.4	80.0	80.0	80.0	80.0	80.0
≥ 3500	6.5	43.9	53.6	63.2	72.9	73.6	78.1	79.4	80.0	80.0	80.0	80.0	80.0
≥ 3000	6.5	44.5	54.2	63.9	73.6	74.2	78.7	80.0	80.7	80.7	80.7	80.7	80.7
≥ 2500	6.5	45.8	55.5	65.2	74.8	75.5	80.0	81.3	81.9	81.9	81.9	81.9	81.9
≥ 2000	6.5	47.7	57.4	67.1	76.8	77.4	81.9	83.2	83.9	83.9	83.9	83.9	83.9
≥ 1800	6.5	49.7	60.0	69.7	79.4	80.0	84.5	85.8	86.5	86.5	86.5	86.5	86.5
≥ 1500	7.1	54.8	65.2	76.8	88.4	89.7	94.8	96.1	96.8	96.8	96.8	96.8	96.8
≥ 1200	7.1	54.8	65.2	77.4	89.7	91.0	96.1	97.4	98.1	98.1	98.1	98.1	98.1
≥ 1000	7.1	55.5	65.8	78.7	91.0	92.3	97.4	98.7	99.4	99.4	99.4	99.4	99.4
≥ 900	7.1	55.5	65.8	78.7	91.0	92.3	97.4	98.7	99.4	99.4	99.4	99.4	99.4
≥ 800	7.1	55.5	65.8	79.4	91.6	92.9	98.1	99.4	100.0	100.0	100.0	100.0	100.0
≥ 700	7.1	55.5	65.8	79.4	91.6	92.9	98.1	99.4	100.0	100.0	100.0	100.0	100.0
≥ 600	7.1	55.5	65.8	79.4	91.6	92.9	98.1	99.4	100.0	100.0	100.0	100.0	100.0
≥ 500	7.1	55.5	65.8	79.4	91.6	92.9	98.1	99.4	100.0	100.0	100.0	100.0	100.0
≥ 400	7.1	55.5	65.8	79.4	91.6	92.9	98.1	99.4	100.0	100.0	100.0	100.0	100.0
≥ 300	7.1	55.5	65.8	79.4	91.6	92.9	98.1	99.4	100.0	100.0	100.0	100.0	100.0
≥ 200	7.1	55.5	65.8	79.4	91.6	92.9	98.1	99.4	100.0	100.0	100.0	100.0	100.0
≥ 100	7.1	55.5	65.8	79.4	91.6	92.9	98.1	99.4	100.0	100.0	100.0	100.0	100.0
0	7.1	55.5	65.8	79.4	91.6	92.9	98.1	99.4	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	9.7	67.1	74.2	78.1	83.2	86.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 20000	9.7	68.4	75.5	79.4	84.5	87.7	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 18000	9.7	69.0	76.1	80.0	85.2	88.4	88.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 16000	9.7	69.0	76.1	80.0	85.2	88.4	88.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 14000	9.7	71.0	78.1	81.9	87.1	90.3	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 12000	9.7	71.6	78.7	82.6	87.7	91.0	91.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 10000	9.7	72.3	79.4	83.9	89.0	92.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 9000	9.7	72.3	79.4	83.9	89.0	92.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 8000	9.7	73.6	81.3	85.8	91.0	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 7000	9.7	73.6	81.3	85.8	91.0	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 6000	9.7	73.6	81.3	85.8	91.0	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 5000	9.7	73.6	81.3	85.8	91.0	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 4500	9.7	73.6	81.3	85.8	91.0	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 4000	9.7	73.6	81.3	85.8	91.0	94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 3500	9.7	73.6	81.3	85.8	91.0	94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 3000	9.7	73.6	81.3	85.8	91.0	94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 2500	10.3	74.2	81.9	86.5	91.6	95.5	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 2000	10.3	74.8	83.2	88.4	93.6	97.4	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1800	10.3	74.8	83.2	88.4	93.6	97.4	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1500	10.3	75.5	83.9	89.0	94.2	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200	10.3	75.5	84.5	89.7	94.8	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	10.3	75.5	84.5	89.7	94.8	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	10.3	75.5	84.5	89.7	94.8	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	10.3	75.5	84.5	89.7	94.8	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	10.3	75.5	84.5	89.7	94.8	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	10.3	75.5	84.5	89.7	94.8	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	10.3	75.5	84.5	89.7	94.8	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	10.3	75.5	84.5	89.7	94.8	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	10.3	75.5	84.5	89.7	94.8	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	10.3	75.5	84.5	89.7	94.8	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	10.3	75.5	84.5	89.7	94.8	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	10.3	75.5	84.5	89.7	94.8	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

135

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JUL
MONTH

16

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	12.3	78.7	82.6	84.5	87.1	87.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 20000	12.3	80.7	84.5	86.5	89.0	89.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 18000	12.3	80.7	84.5	86.5	89.0	89.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 16000	12.3	81.3	85.2	87.1	89.7	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 14000	12.3	81.3	85.2	87.1	89.7	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 12000	12.3	82.6	86.5	88.4	91.6	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 10000	12.9	85.2	89.0	91.0	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 9000	12.9	85.2	89.0	91.0	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
8000	13.6	87.1	91.0	92.9	96.1	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
7000	13.6	87.7	91.6	93.6	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
6000	13.6	87.7	91.6	93.6	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
5000	13.6	87.7	91.6	93.6	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
4500	13.6	87.7	91.6	93.6	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
4000	13.6	87.7	91.6	93.6	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
3500	13.6	88.4	92.3	94.2	97.4	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
3000	13.6	88.4	92.3	94.2	97.4	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
2500	13.6	89.0	92.9	94.8	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2000	13.6	89.0	92.9	94.8	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
1800	13.6	89.0	92.9	94.8	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
1500	13.6	89.0	92.9	94.8	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
1200	13.6	89.7	93.6	95.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000	13.6	89.7	93.6	95.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
900	13.6	89.7	93.6	95.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
800	13.6	89.7	93.6	95.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
700	13.6	89.7	93.6	95.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600	13.6	89.7	93.6	95.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	13.6	89.7	93.6	95.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	13.6	89.7	93.6	95.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	13.6	89.7	93.6	95.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	13.6	89.7	93.6	95.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	13.6	89.7	93.6	95.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	13.6	89.7	93.6	95.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

03114

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	11.6	74.2	80.7	81.9	82.6	82.6	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 20000	11.6	76.1	82.6	83.9	84.5	84.5	84.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 18000	11.6	76.1	82.6	83.9	84.5	84.5	84.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 16000	11.6	76.1	82.6	83.9	84.5	84.5	84.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 14000	11.6	77.4	83.9	85.2	85.8	85.8	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 12000	11.6	79.4	85.8	87.1	87.7	87.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 10000	11.6	80.7	87.7	89.0	89.7	89.7	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 9000	11.6	80.7	87.7	89.0	89.7	89.7	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 8000	11.6	82.6	89.7	91.0	91.6	91.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 7000	11.6	82.6	89.7	91.0	91.6	91.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 6000	11.6	82.6	89.7	91.0	91.6	91.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 5000	11.6	82.6	89.7	91.0	91.6	91.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 4500	11.6	82.6	89.7	91.0	91.6	91.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 4000	11.6	83.2	90.3	91.6	92.3	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 3500	11.6	83.2	90.3	91.6	92.3	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 3000	11.6	83.2	90.3	91.6	92.3	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 2500	11.6	84.5	91.6	92.9	93.6	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 2000	11.6	85.2	92.3	93.6	94.2	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1800	11.6	85.8	92.9	94.2	94.8	94.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1500	11.6	88.4	95.5	96.8	97.4	97.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200	11.6	89.0	96.1	97.4	98.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	11.6	89.0	96.1	97.4	98.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	11.6	89.0	96.1	97.4	98.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	11.6	89.0	96.1	97.4	98.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	11.6	89.0	96.1	97.4	98.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	11.6	89.0	96.1	97.4	98.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	11.6	89.0	96.1	97.4	98.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	11.6	89.0	96.1	97.4	98.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	11.6	89.0	96.1	97.4	98.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	11.6	89.0	96.1	97.4	98.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	11.6	89.0	96.1	97.4	98.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	11.6	89.0	96.1	97.4	98.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	2.6	56.8	61.9	64.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 20000	2.6	56.8	61.9	64.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 18000	2.6	56.8	61.9	64.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 16000	2.6	56.8	61.9	64.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 14000	2.6	57.4	62.6	65.2	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 12000	2.6	60.0	65.2	67.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 10000	2.6	61.3	66.5	69.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 9000	2.6	61.3	66.5	69.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 8000	2.6	63.2	68.4	71.0	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 7000	2.6	63.2	68.4	71.0	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 6000	2.6	63.2	68.4	71.0	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 5000	2.6	63.9	69.0	71.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4500	2.6	63.9	69.0	71.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4000	2.6	63.9	69.0	71.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 3500	2.6	63.9	69.0	71.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 3000	2.6	65.2	70.3	72.9	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 2500	2.6	65.2	70.3	72.9	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 2000	2.6	69.7	74.8	78.1	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 1800	2.6	70.3	75.5	78.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 1500	2.6	74.8	81.3	84.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1200	2.6	78.7	85.2	88.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1000	2.6	82.6	89.7	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 900	2.6	83.9	91.6	94.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 800	2.6	84.5	92.3	95.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	2.6	84.5	92.3	95.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600	2.6	84.5	92.3	95.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500	2.6	84.5	92.3	95.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400	2.6	84.5	92.3	95.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	2.6	84.5	92.3	95.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	2.6	84.5	92.3	95.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	2.6	84.5	92.3	95.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0	2.6	84.5	92.3	95.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	5.7	49.4	55.1	57.8	60.9	61.5	62.7	63.1	63.2	63.2	63.2	63.3	63.3	63.3
≥ 20000	5.7	50.5	56.3	59.0	62.1	62.7	63.9	64.3	64.4	64.4	64.4	64.5	64.5	64.5
≥ 18000	5.7	50.6	56.4	59.1	62.2	62.7	64.0	64.4	64.4	64.5	64.5	64.6	64.6	64.6
≥ 16000	5.7	50.7	56.6	59.4	62.4	63.0	64.2	64.6	64.7	64.8	64.8	64.8	64.8	64.8
≥ 14000	5.8	51.4	57.3	60.0	63.3	63.9	65.1	65.5	65.6	65.7	65.7	65.7	65.7	65.7
≥ 12000	5.8	52.4	58.5	61.3	64.7	65.2	66.5	66.9	67.0	67.0	67.1	67.1	67.1	67.1
≥ 10000	5.9	53.5	59.6	62.5	66.0	66.5	67.7	68.2	68.3	68.3	68.4	68.4	68.4	68.4
≥ 9000	5.9	53.6	59.7	62.6	66.1	66.6	67.8	68.2	68.3	68.4	68.4	68.5	68.5	68.5
≥ 8000	6.0	54.5	60.7	63.6	67.1	67.7	68.9	69.3	69.4	69.4	69.5	69.5	69.5	69.5
≥ 7000	6.0	54.8	61.1	64.0	67.4	68.0	69.2	69.6	69.7	69.8	69.8	69.8	69.8	69.8
≥ 6000	6.0	54.8	61.1	64.0	67.4	68.0	69.2	69.6	69.7	69.8	69.8	69.8	69.8	69.8
≥ 5000	6.0	54.8	61.1	64.0	67.5	68.1	69.3	69.7	69.8	69.8	69.9	69.9	69.9	69.9
≥ 4500	6.0	54.8	61.1	64.0	67.5	68.1	69.3	69.7	69.8	69.8	69.9	69.9	69.9	69.9
≥ 4000	6.0	55.0	61.3	64.2	67.7	68.3	69.5	69.9	70.0	70.1	70.1	70.2	70.2	70.2
≥ 3500	6.0	55.1	61.4	64.3	67.7	68.4	69.6	70.0	70.1	70.2	70.2	70.2	70.2	70.2
≥ 3000	6.0	55.6	61.9	64.8	68.3	69.0	70.2	70.6	70.7	70.7	70.7	70.8	70.8	70.8
≥ 2500	6.1	56.3	62.7	65.7	69.2	69.8	71.1	71.5	71.5	71.6	71.6	71.7	71.7	71.7
≥ 2000	6.3	58.3	64.8	68.0	71.5	72.1	73.3	73.7	73.8	73.9	74.0	74.0	74.0	74.0
≥ 1800	6.3	59.0	65.7	68.9	72.3	73.0	74.2	74.6	74.7	74.8	74.8	74.8	74.8	74.8
≥ 1500	6.4	64.0	71.2	74.9	78.9	79.7	81.0	81.4	81.5	81.5	81.6	81.6	81.6	81.6
≥ 1200	6.4	66.7	74.5	78.7	83.2	84.4	85.8	86.2	86.3	86.4	86.5	86.5	86.5	86.5
≥ 1000	6.5	69.8	78.7	83.5	88.4	89.8	92.0	92.6	92.8	92.9	93.0	93.0	93.0	93.0
≥ 900	6.5	70.3	79.5	84.4	89.4	91.0	93.2	93.7	94.0	94.2	94.3	94.3	94.3	94.3
≥ 800	6.5	71.1	80.8	86.1	91.2	93.0	95.2	95.7	96.0	96.2	96.3	96.3	96.3	96.3
≥ 700	6.5	71.4	81.3	86.7	92.0	93.9	96.1	96.9	97.1	97.3	97.4	97.4	97.4	97.4
≥ 600	6.5	71.5	81.5	87.0	92.7	94.6	97.1	97.9	98.2	98.4	98.5	98.5	98.5	98.5
≥ 500	6.5	71.5	81.5	87.0	93.0	94.8	97.3	98.2	98.5	98.8	98.9	98.9	98.9	98.9
≥ 400	6.5	71.6	81.6	87.1	93.3	95.3	97.8	98.7	99.0	99.3	99.4	99.4	99.4	99.4
≥ 300	6.5	71.6	81.6	87.1	93.3	95.3	97.8	98.7	99.0	99.4	99.5	99.5	99.5	99.5
≥ 200	6.5	71.6	81.6	87.1	93.3	95.3	97.8	98.7	99.0	99.4	99.5	99.6	99.6	99.6
≥ 100	6.5	71.6	81.6	87.1	93.3	95.3	97.8	98.7	99.0	99.4	99.5	99.6	99.6	99.6
≥ 0	6.5	71.6	81.6	87.1	93.3	95.3	97.8	98.7	99.0	99.4	99.5	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS

1240

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

AUG

MONTH

01

HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	2.6	44.5	49.7	53.6	56.8	58.1	58.7	58.7	58.7	58.7	58.7	58.7
≥ 20000	2.6	44.5	49.7	53.6	56.8	58.1	58.7	58.7	58.7	58.7	58.7	58.7
AI 18000	2.6	44.5	49.7	53.6	56.8	58.1	58.7	58.7	58.7	58.7	58.7	58.7
AI 16000	2.6	44.5	49.7	53.6	56.8	58.1	58.7	58.7	58.7	58.7	58.7	58.7
AI 14000	2.6	45.2	50.3	54.2	57.4	58.7	59.4	59.4	59.4	59.4	59.4	59.4
AI 12000	2.6	45.2	50.3	54.2	57.4	58.7	59.4	59.4	59.4	59.4	59.4	59.4
AI 10000	2.6	45.2	50.3	54.2	57.4	58.7	59.4	59.4	59.4	59.4	59.4	59.4
AI 9000	2.6	45.2	50.3	54.2	57.4	58.7	59.4	59.4	59.4	59.4	59.4	59.4
AI 8000	2.6	45.8	51.0	54.8	58.1	59.4	60.0	60.0	60.0	60.0	60.0	60.0
AI 7000	2.6	45.8	51.0	54.8	58.1	59.4	60.0	60.0	60.0	60.0	60.0	60.0
AI 6000	2.6	45.8	51.0	54.8	58.1	59.4	60.0	60.0	60.0	60.0	60.0	60.0
AI 5000	2.6	45.8	51.0	54.8	58.1	59.4	60.0	60.0	60.0	60.0	60.0	60.0
AI 4500	2.6	45.8	51.0	54.8	58.1	59.4	60.0	60.0	60.0	60.0	60.0	60.0
AI 4000	2.6	45.8	51.0	54.8	58.1	59.4	60.0	60.0	60.0	60.0	60.0	60.0
AI 3500	2.6	46.5	51.6	55.5	58.7	60.0	60.7	60.7	60.7	60.7	60.7	60.7
AI 3000	2.6	47.7	52.9	56.8	60.0	61.3	61.9	61.9	61.9	61.9	61.9	61.9
AI 2500	3.9	50.3	55.5	59.4	62.6	63.9	64.5	64.5	64.5	64.5	64.5	64.5
AI 2000	3.9	52.9	58.1	61.9	65.2	66.5	67.1	67.1	67.1	67.1	67.1	67.1
AI 1800	3.9	53.6	58.7	62.6	65.8	67.1	67.7	67.7	67.7	67.7	67.7	67.7
AI 1500	3.9	61.9	67.1	71.6	74.8	76.1	76.8	76.8	76.8	76.8	76.8	76.8
AI 1200	3.9	62.6	67.7	73.6	77.4	78.7	79.4	79.4	79.4	79.4	79.4	79.4
AI 1000	3.9	68.4	74.2	80.0	85.8	87.1	88.4	88.4	88.4	88.4	88.4	88.4
AI 900	3.9	70.3	76.8	82.6	89.0	90.3	91.6	91.6	91.6	91.6	91.6	91.6
AI 800	3.9	71.6	78.1	84.5	91.6	92.9	94.2	94.2	94.2	94.2	94.2	94.2
AI 700	3.9	71.6	78.1	85.2	92.3	93.6	94.8	94.8	94.8	94.8	94.8	94.8
AI 600	3.9	72.3	78.7	85.8	94.2	95.5	96.8	96.8	96.8	96.8	96.8	96.8
AI 500	3.9	72.9	80.0	88.4	96.8	98.1	99.4	99.4	99.4	99.4	99.4	99.4
AI 400	3.9	72.9	80.0	88.4	96.8	98.1	99.4	99.4	99.4	99.4	99.4	99.4
AI 300	3.9	72.9	80.0	88.4	96.8	98.1	99.4	99.4	99.4	99.4	99.4	99.4
AI 200	3.9	72.9	80.0	88.4	96.8	98.1	99.4	99.4	99.4	99.4	99.4	99.4
AI 100	3.9	72.9	80.0	88.4	96.8	98.1	99.4	99.4	99.4	99.4	99.4	99.4
AI 0	3.9	72.9	80.0	88.4	96.8	98.1	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

AUG

MONTH

04

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	7	24.5	27.7	28.4	30.3	31.0	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 20000	7	24.5	27.7	28.4	30.3	31.0	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 18000	7	24.5	27.7	28.4	30.3	31.0	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 16000	7	24.5	27.7	28.4	30.3	31.0	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 14000	7	24.5	27.7	28.4	30.3	31.0	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 12000	7	24.5	27.7	28.4	30.3	31.0	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 10000	7	25.8	29.0	29.7	31.6	32.3	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
≥ 9000	7	25.8	29.0	29.7	31.6	32.3	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
≥ 8000	7	26.5	29.7	30.3	32.3	32.9	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
≥ 7000	7	26.5	29.7	30.3	32.3	32.9	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
≥ 6000	7	26.5	29.7	30.3	32.3	32.9	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
≥ 5000	7	26.5	29.7	30.3	32.3	32.9	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
≥ 4500	7	26.5	29.7	30.3	32.3	32.9	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
≥ 4000	7	26.5	29.7	30.3	32.3	32.9	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
≥ 3500	7	26.5	29.7	30.3	32.3	32.9	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
≥ 3000	1.3	28.4	31.6	32.3	34.2	34.8	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 2500	1.9	29.7	32.9	33.6	35.5	36.1	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
≥ 2000	1.9	33.6	36.8	37.4	39.4	40.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 1800	2.6	34.2	37.4	38.1	40.0	40.7	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
≥ 1500	2.6	43.9	47.1	47.7	51.0	51.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 1200	2.6	47.1	50.3	51.0	54.2	54.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 1000	2.6	54.8	61.3	63.2	67.7	68.4	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 900	2.6	56.1	63.2	65.8	71.0	72.3	76.1	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 800	2.6	56.8	65.2	67.7	74.2	76.1	80.0	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6
≥ 700	2.6	57.4	66.5	69.7	77.4	79.4	83.2	85.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8
≥ 600	2.6	58.1	67.1	70.3	79.4	81.3	85.2	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7
≥ 500	2.6	58.1	68.4	72.3	81.9	85.8	89.7	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3
≥ 400	2.6	58.1	68.4	72.3	81.9	86.5	90.3	92.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9
≥ 300	2.6	58.7	69.0	73.6	83.2	87.7	91.6	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2
≥ 200	2.6	58.7	69.0	73.6	83.9	88.4	92.3	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5
≥ 100	2.6	58.7	69.0	73.6	83.9	88.4	92.3	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5
≥ 0	2.6	58.7	69.0	73.6	83.9	88.4	92.3	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	3.2	12.9	16.1	16.6	19.4	21.3	21.3	21.3	21.3	21.3	21.3	21.9	22.6
≥ 20000	3.2	12.9	16.8	17.4	20.0	21.9	21.9	21.9	21.9	21.9	21.9	22.6	23.2
≥ 18000	3.2	12.9	16.8	17.4	20.0	21.9	21.9	21.9	21.9	21.9	21.9	22.6	23.2
≥ 16000	3.2	12.9	16.8	17.4	20.0	21.9	21.9	21.9	21.9	21.9	21.9	22.6	23.2
≥ 14000	3.2	12.9	16.8	17.4	20.0	21.9	21.9	21.9	21.9	21.9	21.9	22.6	23.2
≥ 12000	3.2	12.9	16.8	17.4	20.0	21.9	21.9	21.9	21.9	21.9	21.9	22.6	23.2
≥ 10000	3.2	14.8	18.7	19.4	21.9	23.9	23.9	23.9	23.9	23.9	23.9	24.5	25.2
≥ 9000	3.2	14.8	18.7	19.4	21.9	23.9	23.9	23.9	23.9	23.9	23.9	24.5	25.2
≥ 8000	3.2	15.5	19.4	20.0	22.6	24.5	24.5	24.5	24.5	25.2	25.2	25.8	26.5
≥ 7000	3.2	15.5	19.4	20.0	22.6	24.5	24.5	24.5	24.5	25.2	25.2	25.8	26.5
≥ 6000	3.2	15.5	19.4	20.0	22.6	24.5	24.5	24.5	24.5	25.2	25.2	25.8	26.5
≥ 5000	3.2	16.1	20.0	20.7	23.2	25.2	25.2	25.2	25.2	25.8	25.8	26.5	27.1
≥ 4500	3.2	16.1	20.0	20.7	23.2	25.2	25.2	25.2	25.2	25.8	25.8	26.5	27.1
≥ 4000	3.2	16.8	20.7	21.3	23.9	25.8	25.8	25.8	25.8	26.5	26.5	27.1	27.7
≥ 3500	3.2	18.7	22.6	23.2	25.8	27.7	27.7	27.7	27.7	28.4	28.4	29.0	29.7
≥ 3000	3.2	19.4	23.2	23.9	26.5	29.0	29.0	29.0	29.0	29.7	29.7	30.3	31.0
≥ 2500	3.2	19.4	23.2	24.5	27.1	29.7	29.7	29.7	29.7	30.3	30.3	31.0	31.6
≥ 2000	3.2	23.9	28.4	29.7	32.9	35.5	35.5	35.5	35.5	36.1	36.1	36.8	37.4
≥ 1800	3.9	25.2	30.3	31.6	34.8	37.4	37.4	37.4	37.4	38.1	38.1	38.7	39.4
≥ 1500	3.9	30.3	36.8	38.7	42.6	45.2	45.2	45.2	45.2	45.8	45.8	46.5	47.1
≥ 1200	3.9	32.9	41.3	43.2	49.0	52.9	52.9	53.6	53.6	54.2	54.2	54.8	55.5
≥ 1000	3.9	33.6	43.2	45.2	54.8	60.7	63.9	65.2	65.2	65.8	65.8	66.5	67.1
≥ 900	3.9	33.6	43.9	47.1	58.1	63.9	71.0	72.9	72.9	73.6	73.6	74.2	74.8
≥ 800	3.9	34.2	44.5	49.0	60.7	67.1	74.2	76.8	76.8	77.4	77.4	78.1	78.7
≥ 700	3.9	34.2	44.5	49.7	61.9	69.0	76.1	78.7	78.7	79.4	79.4	80.0	80.7
≥ 600	3.9	34.2	44.5	50.3	63.2	70.3	77.4	82.6	82.6	84.5	84.5	85.2	85.8
≥ 500	3.9	34.2	44.5	50.3	63.9	71.6	79.4	85.8	85.8	89.7	90.3	91.6	92.3
≥ 400	3.9	34.2	44.5	50.3	64.5	72.3	80.7	88.4	88.4	92.9	93.6	94.8	95.5
≥ 300	3.9	34.2	44.5	50.3	64.5	72.9	81.3	89.0	89.0	93.6	94.2	95.5	96.1
≥ 200	3.9	34.2	44.5	50.3	64.5	72.9	81.3	89.0	89.0	93.6	94.2	96.1	96.8
≥ 100	3.9	34.2	44.5	50.3	64.5	72.9	81.3	89.0	89.0	93.6	94.2	96.1	96.8
0	3.9	34.2	44.5	50.3	64.5	72.9	81.3	89.0	89.0	93.6	94.2	96.1	96.8

155

TOTAL NUMBER OF OBSERVATIONS

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CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	3.9	31.0	35.5	43.9	56.8	61.9	67.1	69.7	69.7	70.3	70.3
≥ 20000	3.9	32.3	36.8	45.2	58.1	63.9	69.0	71.6	71.6	72.3	72.3
≥ 18000	3.9	32.3	36.8	45.2	58.1	63.9	69.0	71.6	71.6	72.3	72.3
≥ 16000	3.9	32.3	36.8	45.2	58.1	63.9	69.0	71.6	71.6	72.3	72.3
≥ 14000	3.9	32.3	36.8	45.2	58.1	63.9	69.0	71.6	71.6	72.3	72.3
≥ 12000	3.9	33.6	38.1	46.5	59.4	65.2	70.3	72.9	72.9	73.6	73.6
≥ 10000	3.9	33.6	38.1	47.1	60.7	66.5	71.6	74.2	74.2	74.8	74.8
≥ 9000	3.9	33.6	38.1	47.1	60.7	66.5	71.6	74.2	74.2	74.8	74.8
≥ 8000	3.9	34.2	38.7	47.7	61.3	67.1	72.3	74.8	74.8	75.5	75.5
≥ 7000	3.9	34.8	39.4	48.4	61.9	67.7	72.9	75.5	75.5	76.1	76.1
≥ 6000	3.9	34.8	39.4	48.4	61.9	67.7	72.9	75.5	75.5	76.1	76.1
≥ 5000	3.9	34.8	39.4	48.4	61.9	67.7	72.9	75.5	75.5	76.1	76.1
≥ 4500	3.9	34.8	39.4	48.4	61.9	67.7	72.9	75.5	75.5	76.1	76.1
≥ 4000	3.9	34.8	39.4	48.4	61.9	67.7	72.9	75.5	75.5	76.1	76.1
≥ 3500	3.9	34.8	39.4	48.4	61.9	67.7	72.9	75.5	75.5	76.1	76.1
≥ 3000	4.5	38.1	42.6	51.6	65.2	71.0	76.1	78.7	78.7	79.4	79.4
≥ 2500	5.2	39.4	43.9	52.9	66.5	72.3	77.4	80.0	80.0	80.7	80.7
≥ 2000	5.8	43.2	49.0	58.7	72.3	78.1	83.2	85.8	85.8	86.5	86.5
≥ 1800	5.8	43.2	49.0	58.7	72.3	78.1	83.2	85.8	85.8	86.5	86.5
≥ 1500	5.8	44.5	51.0	62.6	76.8	82.6	87.7	90.3	90.3	91.0	91.0
≥ 1200	5.8	45.8	52.9	64.5	79.4	85.8	91.0	93.6	93.6	94.2	94.2
≥ 1000	5.8	46.5	53.6	65.2	80.0	86.5	92.3	94.8	94.8	95.5	95.5
≥ 900	5.8	47.1	54.2	65.8	80.7	87.1	92.9	95.5	95.5	96.1	96.1
≥ 800	5.8	47.1	54.2	65.8	80.7	87.1	93.6	96.1	96.1	96.8	96.8
≥ 700	5.8	47.1	54.2	65.8	80.7	87.1	93.6	96.1	96.1	96.8	96.8
≥ 600	5.8	47.1	54.2	65.8	81.3	87.7	94.2	96.8	96.8	97.4	97.4
≥ 500	5.8	47.1	54.2	66.5	81.9	88.4	94.8	97.4	97.4	98.1	98.1
≥ 400	5.8	47.1	54.2	66.5	81.9	89.0	95.5	98.1	98.1	98.7	98.7
≥ 300	5.8	47.1	54.2	66.5	81.9	89.0	95.5	98.7	98.7	99.4	99.4
≥ 200	5.8	47.1	54.2	66.5	81.9	89.0	95.5	98.7	98.7	99.4	99.4
≥ 100	5.8	47.1	54.2	66.5	81.9	89.0	95.5	98.7	98.7	99.4	99.4
0	5.8	47.1	54.2	66.5	81.9	89.0	95.5	98.7	98.7	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114 STATION NAME SANTA ANA, CALIFORNIA 73-77 YEARS MONTH AUG 13 HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	9.0	61.3	67.7	77.4	87.1	89.7	91.0	91.6	91.6	91.6	91.6	91.6
≥ 20000	9.0	61.9	68.4	78.7	88.4	91.0	92.3	92.9	92.9	92.9	92.9	92.9
18000	9.0	61.9	68.4	78.7	88.4	91.0	92.3	92.9	92.9	92.9	92.9	92.9
16000	9.0	61.9	68.4	78.7	88.4	91.0	92.3	92.9	92.9	92.9	92.9	92.9
14000	9.0	62.6	69.0	79.4	89.0	91.6	92.9	93.6	93.6	93.6	93.6	93.6
12000	9.0	63.9	70.3	80.7	90.3	92.9	94.2	94.8	94.8	94.8	94.8	94.8
10000	9.0	63.9	70.3	81.3	91.0	93.6	94.8	95.5	95.5	95.5	95.5	95.5
9000	9.0	63.9	70.3	81.3	91.0	93.6	94.8	95.5	95.5	95.5	95.5	95.5
8000	9.0	63.9	70.3	81.3	91.0	93.6	94.8	95.5	95.5	95.5	95.5	95.5
7000	9.0	64.5	71.0	81.9	91.6	94.2	95.5	96.1	96.1	96.1	96.1	96.1
6000	9.0	64.5	71.0	81.9	91.6	94.2	95.5	96.1	96.1	96.1	96.1	96.1
5000	9.0	64.5	71.0	81.9	91.6	94.2	95.5	96.1	96.1	96.1	96.1	96.1
4500	9.0	64.5	71.0	81.9	91.6	94.2	95.5	96.1	96.1	96.1	96.1	96.1
4000	9.0	64.5	71.0	81.9	91.6	94.2	95.5	96.1	96.1	96.1	96.1	96.1
3500	9.0	64.5	71.0	81.9	91.6	94.2	95.5	96.1	96.1	96.1	96.1	96.1
3000	9.0	65.2	71.6	82.6	92.3	94.8	96.1	96.8	96.8	96.8	96.8	96.8
2500	9.0	65.2	72.3	83.2	92.9	95.5	96.8	97.4	97.4	97.4	97.4	97.4
2000	9.0	65.2	72.3	83.2	92.9	95.5	96.8	97.4	97.4	97.4	97.4	97.4
1800	9.0	65.2	72.3	83.2	92.9	95.5	96.8	97.4	97.4	97.4	97.4	97.4
1500	9.7	65.8	72.9	83.9	93.6	96.1	97.4	98.1	98.1	98.1	98.1	98.1
1200	9.7	65.8	72.9	83.9	93.6	96.1	97.4	98.1	98.1	98.1	98.1	98.1
1000	9.7	66.5	73.6	84.5	94.2	97.4	98.7	99.4	99.4	99.4	99.4	99.4
900	9.7	66.5	73.6	84.5	94.2	97.4	98.7	99.4	99.4	99.4	99.4	99.4
800	9.7	66.5	73.6	84.5	94.2	97.4	98.7	99.4	99.4	99.4	99.4	99.4
700	9.7	66.5	73.6	84.5	94.2	97.4	98.7	99.4	99.4	99.4	99.4	99.4
600	9.7	66.5	73.6	84.5	94.2	97.4	98.7	99.4	99.4	99.4	99.4	99.4
500	9.7	66.5	73.6	84.5	94.2	97.4	98.7	99.4	99.4	99.4	99.4	99.4
400	9.7	66.5	73.6	84.5	94.2	97.4	98.7	99.4	99.4	99.4	99.4	99.4
300	9.7	66.5	73.6	84.5	94.2	97.4	98.7	99.4	99.4	99.4	99.4	99.4
200	9.7	66.5	73.6	84.5	94.2	97.4	98.7	99.4	99.4	99.4	99.4	99.4
100	9.7	66.5	73.6	84.5	94.2	97.4	98.7	99.4	99.4	99.4	99.4	99.4
0	9.7	66.5	73.6	84.5	94.2	97.4	98.7	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 125

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

03114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	11.6	76.1	83.2	88.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 20000	11.6	78.1	85.2	90.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 18000	11.6	78.1	85.2	90.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 16000	11.6	78.7	85.8	91.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 14000	11.6	78.7	85.8	91.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 12000	11.6	80.7	87.7	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 10000	11.6	80.7	87.7	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 9000	11.6	80.7	87.7	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 8000	11.6	80.7	87.7	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 7000	11.6	80.7	87.7	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 6000	11.6	80.7	87.7	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 5000	11.6	80.7	87.7	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 4500	11.6	80.7	87.7	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 4000	11.6	81.3	88.4	93.6	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 3500	11.6	81.3	88.4	93.6	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 3000	12.3	81.9	89.0	94.2	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 2500	12.3	81.9	89.0	94.2	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 2000	12.3	82.6	89.7	94.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1800	12.3	82.6	89.7	94.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1500	12.9	83.2	90.3	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200	12.9	83.2	90.3	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	12.9	83.2	90.3	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	12.9	83.2	90.3	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	12.9	83.2	90.3	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	12.9	83.2	90.3	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	12.9	83.2	90.3	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	12.9	83.2	90.3	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	12.9	83.2	90.3	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	12.9	83.2	90.3	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200	12.9	83.2	90.3	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100	12.9	83.2	90.3	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0	12.9	83.2	90.3	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

AUG
MONTH

19
HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	10.3	79.4	84.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 20000	11.0	80.0	85.2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 18000	11.0	80.0	85.2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 16000	11.0	80.0	85.2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 14000	11.0	80.0	85.2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 12000	11.0	81.3	86.5	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 10000	11.0	82.6	87.7	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 9000	11.0	82.6	87.7	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 8000	11.0	82.6	87.7	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 7000	11.0	82.6	87.7	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 6000	11.0	82.6	87.7	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 5000	11.0	82.6	87.7	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 4500	11.0	82.6	87.7	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 4000	11.0	83.2	88.4	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 3500	11.0	83.2	88.4	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 3000	11.0	83.9	89.0	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 2500	11.6	85.2	90.3	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 2000	11.6	85.8	91.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1800	11.6	85.8	91.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1500	12.3	87.1	92.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1200	12.3	87.1	92.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1000	12.3	87.1	92.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 900	12.3	87.1	92.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 800	12.3	87.1	92.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 700	12.3	87.7	92.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 600	12.3	87.7	92.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 500	12.3	87.7	92.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 400	12.3	87.7	92.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 300	12.3	88.4	93.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	12.3	88.4	93.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	12.3	88.4	93.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0	12.3	88.4	93.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	4.5	68.4	73.6	75.8	77.4	77.4	77.4	77.4	77.4	78.1	78.1	78.1	78.1
≥ 20000	4.5	69.0	74.2	77.4	78.1	78.1	78.1	78.1	78.1	78.7	78.7	78.7	78.7
≥ 18000	4.5	69.0	74.2	77.4	78.1	78.1	78.1	78.1	78.1	78.7	78.7	78.7	78.7
≥ 16000	4.5	69.0	74.2	77.4	78.1	78.1	78.1	78.1	78.1	78.7	78.7	78.7	78.7
≥ 14000	4.5	69.7	75.5	78.7	79.4	79.4	79.4	79.4	79.4	80.0	80.0	80.0	80.0
≥ 12000	4.5	69.7	75.5	78.7	79.4	79.4	79.4	79.4	79.4	80.0	80.0	80.0	80.0
≥ 10000	4.5	69.7	75.5	78.7	79.4	79.4	79.4	79.4	79.4	80.0	80.0	80.0	80.0
≥ 9000	4.5	69.7	75.5	78.7	79.4	79.4	79.4	79.4	79.4	80.0	80.0	80.0	80.0
≥ 8000	4.5	70.3	76.1	79.4	80.0	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7
≥ 7000	4.5	70.3	76.1	79.4	80.0	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7
≥ 6000	4.5	70.3	76.1	79.4	80.0	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7
≥ 5000	4.5	70.3	76.1	79.4	80.0	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7
≥ 4500	4.5	70.3	76.1	79.4	80.0	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7
≥ 4000	4.5	70.3	76.1	79.4	80.0	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7
≥ 3500	4.5	70.3	76.1	79.4	80.0	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7
≥ 3000	4.5	71.0	76.8	80.0	80.7	81.3	81.3	81.3	81.3	81.9	81.9	81.9	81.9
≥ 2500	5.2	72.9	78.7	81.9	82.6	83.2	83.2	83.2	83.2	83.9	83.9	83.9	83.9
≥ 2000	5.2	74.8	80.7	83.9	84.5	85.2	85.2	85.2	85.2	85.8	85.8	85.8	85.8
≥ 1800	5.2	74.8	80.7	83.9	84.5	85.2	85.2	85.2	85.2	85.8	85.8	85.8	85.8
≥ 1500	5.2	79.4	85.2	89.0	89.7	90.3	90.3	90.3	90.3	91.0	91.0	91.0	91.0
≥ 1200	5.2	80.7	86.5	90.3	91.6	92.3	92.3	92.3	92.3	92.9	92.9	92.9	92.9
≥ 1000	5.2	83.9	89.7	94.2	95.5	96.1	96.1	96.1	96.1	96.8	96.8	96.8	96.8
≥ 900	5.2	83.9	89.7	94.2	95.5	96.1	96.1	96.1	96.1	96.8	96.8	96.8	96.8
≥ 800	5.2	84.5	91.0	95.5	97.4	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4
≥ 700	5.2	84.5	91.6	96.1	98.1	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
≥ 600	5.2	84.5	91.6	96.1	98.1	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
≥ 500	5.2	84.5	91.6	96.1	98.1	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
≥ 400	5.2	84.5	91.6	96.1	98.1	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
≥ 300	5.2	84.5	91.6	96.1	98.1	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
≥ 200	5.2	84.5	91.6	96.1	98.1	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
≥ 100	5.2	84.5	91.6	96.1	98.1	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
0	5.2	84.5	91.6	96.1	98.1	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

AUG
MONTH
ALL
HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	5.7	49.8	54.8	59.3	63.6	65.0	66.1	66.5	66.6	66.6	66.6	66.7	66.7	66.8
≥ 20000	5.8	50.4	55.5	60.1	64.4	65.9	66.9	67.3	67.3	67.5	67.5	67.5	67.6	67.7
≥ 18000	5.8	50.4	55.5	60.1	64.4	65.9	66.9	67.3	67.3	67.5	67.5	67.5	67.6	67.7
≥ 16000	5.8	50.5	55.6	60.2	64.4	66.0	67.0	67.4	67.4	67.6	67.6	67.6	67.7	67.7
≥ 14000	5.8	50.7	55.9	60.5	64.8	66.3	67.3	67.7	67.7	67.9	67.9	68.0	68.0	68.1
≥ 12000	5.8	51.5	56.6	61.2	65.5	67.0	68.1	68.5	68.5	68.6	68.6	68.7	68.7	68.8
≥ 10000	5.8	52.0	57.2	61.9	66.3	67.8	68.9	69.3	69.3	69.4	69.4	69.5	69.5	69.6
≥ 9000	5.8	52.0	57.2	61.9	66.3	67.8	68.9	69.3	69.3	69.4	69.4	69.5	69.5	69.6
≥ 8000	5.8	52.4	57.6	62.3	66.7	68.2	69.3	69.7	69.7	69.9	69.9	70.0	70.0	70.1
≥ 7000	5.8	52.6	57.7	62.5	66.9	68.4	69.4	69.8	69.8	70.1	70.1	70.2	70.2	70.2
≥ 6000	5.8	52.6	57.7	62.5	66.9	68.4	69.4	69.8	69.8	70.1	70.1	70.2	70.2	70.2
≥ 5000	5.8	52.7	57.8	62.6	66.9	68.4	69.4	69.8	69.8	70.2	70.2	70.3	70.3	70.4
≥ 4500	5.8	52.7	57.8	62.6	66.9	68.4	69.4	69.8	69.8	70.2	70.2	70.3	70.3	70.4
≥ 4000	5.8	52.9	58.1	62.8	67.2	68.9	69.9	70.3	70.3	70.6	70.6	70.7	70.7	70.7
≥ 3500	5.8	53.2	58.4	63.2	67.5	69.2	70.2	70.7	70.7	70.9	70.9	71.0	71.0	71.1
≥ 3000	6.1	54.4	59.6	64.4	68.7	70.5	71.5	71.9	71.9	72.2	72.2	72.3	72.3	72.3
≥ 2500	6.5	55.5	60.7	65.6	69.9	71.7	72.7	73.2	73.2	73.4	73.4	73.5	73.5	73.6
≥ 2000	6.6	57.7	63.2	68.2	72.7	74.4	75.5	75.9	75.9	76.1	76.1	76.2	76.2	76.3
≥ 1800	6.8	58.1	63.6	68.6	73.1	74.8	75.9	76.3	76.3	76.5	76.5	76.6	76.6	76.7
≥ 1500	7.0	62.0	67.8	73.3	78.1	79.8	81.0	81.4	81.4	81.7	81.8	81.9	81.9	82.0
≥ 1200	7.0	63.2	69.3	74.9	80.2	82.3	83.4	83.9	83.9	84.2	84.3	84.4	84.5	84.6
≥ 1000	7.0	65.5	72.3	78.2	84.3	86.6	88.6	89.2	89.2	89.5	89.6	89.8	89.8	89.9
≥ 900	7.0	66.0	73.0	79.1	85.7	88.2	90.7	91.4	91.4	91.7	91.8	91.9	92.0	92.1
≥ 800	7.0	66.5	73.7	80.1	87.0	89.7	92.3	93.2	93.2	93.6	93.6	93.8	93.9	94.0
≥ 700	7.0	66.5	74.0	80.6	87.7	90.5	93.1	94.0	94.0	94.4	94.4	94.6	94.7	94.8
≥ 600	7.0	66.7	74.1	80.8	88.5	91.2	93.8	95.1	95.1	95.6	95.7	95.8	95.9	96.0
≥ 500	7.0	66.8	74.4	81.5	89.3	92.3	95.0	96.5	96.5	97.2	97.3	97.6	97.7	97.7
≥ 400	7.0	66.8	74.4	81.5	89.4	92.6	95.3	96.9	96.9	97.7	97.9	98.2	98.2	98.3
≥ 300	7.0	66.9	74.6	81.7	89.6	92.9	95.7	97.5	97.5	98.3	98.5	98.7	98.8	98.9
≥ 200	7.0	66.9	74.6	81.7	89.7	93.0	95.8	97.7	97.7	98.5	98.6	99.0	99.0	99.1
≥ 100	7.0	66.9	74.6	81.7	89.7	93.0	95.8	97.7	97.7	98.5	98.6	99.0	99.0	99.1
0	7.0	66.9	74.6	81.7	89.7	93.0	95.8	97.7	97.7	98.5	98.6	99.1	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	2.7	40.7	45.3	45.3	48.7	48.7	48.7	48.7	48.7	49.3	49.3	49.3	49.3
≥ 20000	2.7	42.0	47.3	47.3	50.7	50.7	50.7	50.7	50.7	51.3	51.3	51.3	51.3
≥ 18000	2.7	42.0	47.3	47.3	50.7	50.7	50.7	50.7	50.7	51.3	51.3	51.3	51.3
≥ 16000	2.7	42.0	47.3	47.3	50.7	50.7	50.7	50.7	50.7	51.3	51.3	51.3	51.3
≥ 14000	2.7	42.7	48.0	48.0	51.3	51.3	51.3	51.3	51.3	52.0	52.0	52.0	52.0
≥ 12000	2.7	43.3	48.7	48.7	52.0	52.0	52.0	52.0	52.0	52.7	52.7	52.7	52.7
≥ 10000	2.7	44.7	50.0	50.0	53.3	53.3	53.3	53.3	53.3	54.0	54.0	54.0	54.0
≥ 9000	2.7	44.7	50.0	50.0	53.3	53.3	53.3	53.3	53.3	54.0	54.0	54.0	54.0
≥ 8000	2.7	44.7	50.0	50.0	53.3	53.3	53.3	53.3	53.3	54.0	54.0	54.0	54.0
≥ 7000	2.7	44.7	50.0	50.0	53.3	53.3	53.3	53.3	53.3	54.0	54.0	54.0	54.0
≥ 6000	2.7	46.0	51.3	51.3	54.7	54.7	54.7	54.7	54.7	55.3	55.3	55.3	55.3
≥ 5000	2.7	46.0	51.3	51.3	54.7	54.7	54.7	54.7	54.7	55.3	55.3	55.3	55.3
≥ 4500	2.7	46.0	51.3	51.3	54.7	54.7	54.7	54.7	54.7	55.3	55.3	55.3	55.3
≥ 4000	2.7	46.0	51.3	51.3	54.7	54.7	54.7	54.7	54.7	55.3	55.3	55.3	55.3
≥ 3500	2.7	46.0	51.3	51.3	54.7	54.7	54.7	54.7	54.7	55.3	55.3	55.3	55.3
≥ 3000	2.7	48.0	53.3	53.3	56.7	56.7	56.7	56.7	56.7	57.3	57.3	57.3	57.3
≥ 2500	2.7	50.0	56.0	56.0	60.0	60.0	60.0	60.0	60.0	60.7	60.7	60.7	60.7
≥ 2000	2.7	55.3	61.3	61.3	67.3	67.3	67.3	67.3	67.3	68.0	68.0	68.0	68.0
≥ 1800	2.7	56.7	62.7	62.7	68.7	68.7	68.7	68.7	68.7	69.3	69.3	69.3	69.3
≥ 1500	3.3	65.3	71.3	72.0	78.0	78.0	78.0	78.7	78.7	79.3	79.3	79.3	79.3
≥ 1200	3.3	66.7	74.0	74.7	81.3	81.3	81.3	82.0	82.0	82.7	82.7	82.7	82.7
≥ 1000	3.3	70.7	79.3	82.0	91.3	91.3	92.7	93.3	93.3	94.0	94.0	94.0	94.0
≥ 900	3.3	71.3	80.0	83.3	93.3	93.3	94.7	95.3	95.3	96.0	96.0	96.0	96.0
≥ 800	3.3	71.3	80.0	83.3	93.3	93.3	94.7	95.3	95.3	96.0	96.0	96.0	96.0
≥ 700	3.3	72.7	81.3	84.7	95.3	95.3	96.7	97.3	97.3	98.0	98.0	98.0	98.0
≥ 600	3.3	72.7	81.3	84.7	95.3	95.3	96.7	97.3	97.3	98.0	98.0	98.0	98.0
≥ 500	3.3	72.7	81.3	84.7	95.3	95.3	96.7	97.3	97.3	98.0	98.0	98.0	98.0
≥ 400	3.3	72.7	81.3	84.7	95.3	95.3	96.0	96.7	96.7	97.3	97.3	97.3	97.3
≥ 300	3.3	72.7	81.3	84.7	96.0	96.0	96.7	97.3	97.3	98.0	98.0	98.0	98.0
≥ 200	3.3	72.7	81.3	84.7	96.0	96.0	96.7	97.3	97.3	98.0	98.0	98.0	98.0
≥ 100	3.3	72.7	81.3	84.7	96.0	96.0	96.7	97.3	97.3	98.0	98.0	98.0	98.0
0	3.3	72.7	81.3	84.7	96.0	96.0	96.7	97.3	97.3	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEAR

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	2.0	27.3	29.3	32.0	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
≥ 20000	2.0	27.3	29.3	32.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 18000	2.0	27.3	29.3	32.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 16000	2.0	27.3	29.3	32.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 14000	2.0	28.0	30.0	32.7	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
≥ 12000	2.0	28.0	30.0	32.7	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
≥ 10000	2.0	29.3	31.3	34.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 9000	2.0	29.3	31.3	34.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
8000	2.0	29.3	31.3	34.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
7000	2.0	29.3	31.3	34.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
6000	2.0	29.3	31.3	34.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
5000	2.0	29.3	31.3	34.7	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
4500	2.0	30.0	32.0	35.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
4000	2.0	30.7	32.7	36.0	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
3500	2.0	31.3	33.3	36.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
3000	2.0	32.7	34.7	38.0	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
2500	2.0	34.7	36.7	40.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
2000	2.0	40.7	43.3	47.3	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
1800	2.0	41.3	44.7	48.7	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
1500	2.0	50.7	55.3	59.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
1200	2.0	54.7	60.0	64.0	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
1000	2.0	58.0	64.0	69.3	79.3	79.3	79.3	81.3	81.3	81.3	81.3	81.3	81.3
900	2.0	59.3	66.7	72.0	82.0	82.0	82.0	84.7	84.7	84.7	84.7	84.7	84.7
800	2.0	59.3	66.7	73.3	84.0	84.0	84.0	87.3	87.3	87.3	87.3	87.3	87.3
700	2.0	60.0	67.3	74.0	85.3	85.3	85.3	89.3	89.3	89.3	89.3	89.3	89.3
600	2.0	60.0	68.0	74.7	86.0	86.0	86.0	90.0	90.0	90.0	90.0	90.0	90.0
500	2.0	60.7	69.3	76.0	88.0	88.0	88.0	92.7	92.7	92.7	92.7	92.7	92.7
400	2.0	60.7	69.3	76.0	88.7	88.7	88.7	93.3	93.3	93.3	93.3	93.3	93.3
300	2.0	60.7	69.3	76.0	88.7	88.7	88.7	94.7	94.7	94.7	94.7	94.7	94.7
200	2.0	60.7	69.3	76.0	88.7	88.7	88.7	94.7	94.7	94.7	94.7	94.7	94.7
100	2.0	60.7	69.3	76.0	88.7	88.7	88.7	94.7	94.7	94.7	94.7	94.7	94.7
0	2.0	60.7	69.3	76.0	88.7	88.7	88.7	94.7	94.7	94.7	94.7	94.7	94.7

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

SEP

MONTH

07

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	3.3	18.7	20.0	20.7	23.3	24.0	25.3	26.7	27.3	28.0	28.0	28.0	28.0	28.7
≥ 20000	3.3	19.3	20.7	21.3	24.0	24.7	26.0	27.3	28.0	28.7	28.7	28.7	28.7	29.3
≥ 18000	3.3	19.3	20.7	21.3	24.0	24.7	26.0	27.3	28.0	28.7	28.7	28.7	28.7	29.3
≥ 16000	3.3	19.3	20.7	21.3	24.0	24.7	26.0	27.3	28.0	28.7	28.7	28.7	28.7	29.3
≥ 14000	3.3	19.3	20.7	21.3	24.0	24.7	26.0	27.3	28.0	28.7	28.7	28.7	28.7	29.3
≥ 12000	4.0	20.7	22.0	22.7	25.3	26.0	27.3	28.7	29.3	30.0	30.0	30.0	30.0	31.3
≥ 10000	4.0	21.3	22.7	23.3	26.7	27.3	28.7	30.0	30.7	31.3	31.3	31.3	31.3	32.7
≥ 9000	4.0	21.3	22.7	23.3	26.7	27.3	28.7	30.0	30.7	31.3	31.3	31.3	31.3	32.7
≥ 8000	4.0	21.3	22.7	23.3	26.7	27.3	28.7	30.0	30.7	31.3	31.3	31.3	31.3	32.7
≥ 7000	4.0	22.0	23.3	24.0	28.0	28.7	30.0	31.3	32.0	32.7	32.7	32.7	32.7	33.3
≥ 6000	4.0	22.0	23.3	24.0	28.0	28.7	30.0	31.3	32.0	32.7	32.7	32.7	32.7	33.3
≥ 5000	4.0	22.0	23.3	24.0	28.0	28.7	30.0	31.3	32.0	32.7	32.7	32.7	32.7	33.3
4500	4.0	22.7	24.0	24.7	28.7	29.3	30.7	32.0	32.7	33.3	33.3	33.3	33.3	34.7
4000	4.0	24.0	25.3	26.0	30.0	30.7	32.0	33.3	34.0	34.7	34.7	34.7	34.7	36.0
3500	4.0	25.3	26.7	27.3	31.3	32.0	33.3	34.7	35.3	36.0	36.0	36.0	36.0	37.3
3000	4.0	26.0	27.3	28.0	32.7	33.3	34.7	36.0	36.7	37.3	37.3	37.3	37.3	38.7
2500	4.0	27.3	28.7	29.3	34.0	35.3	36.7	38.0	39.3	40.0	40.0	40.0	40.0	41.3
2000	5.3	34.0	36.0	36.7	41.3	43.3	44.7	46.0	47.3	48.0	48.0	48.0	48.0	49.3
1800	5.3	35.3	37.3	38.0	42.7	44.7	46.0	47.3	48.7	49.3	49.3	49.3	49.3	50.7
1500	5.3	40.0	44.0	46.7	54.0	56.7	58.0	60.0	61.3	62.0	62.0	62.0	62.0	63.3
1200	5.3	42.7	46.7	50.7	60.0	62.7	66.0	68.0	69.3	70.7	70.7	70.7	70.7	72.0
1000	5.3	44.0	48.0	52.7	64.0	68.7	73.3	76.0	77.3	80.0	80.0	80.0	80.0	81.3
900	5.3	44.7	48.7	53.3	65.3	70.0	75.3	78.7	80.0	82.7	82.7	82.7	82.7	84.0
800	5.3	44.7	48.7	53.3	65.3	70.0	76.7	80.0	81.3	84.7	84.7	84.7	84.7	86.0
700	5.3	44.7	48.7	53.3	66.0	70.7	78.0	81.3	83.3	86.7	86.7	86.7	86.7	88.0
600	5.3	44.7	48.7	53.3	66.0	70.7	78.7	84.0	86.0	89.3	89.3	89.3	89.3	90.7
500	5.3	44.7	48.7	53.3	66.0	70.7	78.7	84.7	86.7	92.0	92.0	92.7	92.7	94.0
400	5.3	44.7	48.7	53.3	66.0	70.7	78.7	84.7	86.7	92.0	92.7	93.3	93.3	95.3
300	5.3	44.7	48.7	53.3	66.0	70.7	78.7	84.7	86.7	92.0	92.7	94.0	94.7	96.7
200	5.3	44.7	48.7	53.3	66.0	70.7	78.7	84.7	86.7	92.0	92.7	94.7	95.3	98.7
100	5.3	44.7	48.7	53.3	66.0	70.7	78.7	84.7	86.7	92.0	92.7	94.7	95.3	99.3
0	5.3	44.7	48.7	53.3	66.0	70.7	78.7	84.7	86.7	92.0	92.7	94.7	95.3	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	5.3	22.0	26.0	28.7	34.7	37.3	43.3	43.3	43.3	44.0	44.0	44.0
≥ 20000	5.3	22.7	26.7	29.3	35.3	38.0	44.0	44.0	44.0	44.7	44.7	44.7
≥ 18000	5.3	22.7	26.7	30.0	36.0	38.7	44.7	44.7	44.7	45.3	45.3	45.3
≥ 16000	5.3	22.7	26.7	30.0	36.0	38.7	44.7	44.7	44.7	45.3	45.3	45.3
≥ 14000	5.3	23.3	27.3	30.7	36.7	39.3	45.3	45.3	45.3	46.0	46.0	46.0
≥ 12000	5.3	23.3	27.3	30.7	36.7	39.3	45.3	45.3	45.3	46.0	46.0	46.0
≥ 10000	5.3	23.3	27.3	30.7	36.7	39.3	45.3	45.3	45.3	46.0	46.0	46.0
≥ 9000	5.3	23.3	27.3	30.7	36.7	39.3	45.3	45.3	45.3	46.0	46.0	46.0
≥ 8000	5.3	24.7	28.7	32.0	38.0	40.7	46.7	46.7	46.7	47.3	47.3	47.3
≥ 7000	5.3	24.7	28.7	32.0	38.7	41.3	47.3	47.3	47.3	48.0	48.0	48.0
≥ 6000	5.3	24.7	28.7	32.0	38.7	41.3	47.3	47.3	47.3	48.0	48.0	48.0
≥ 5000	5.3	24.7	28.7	32.0	38.7	41.3	47.3	47.3	47.3	48.0	48.0	48.0
≥ 4500	5.3	24.7	28.7	32.0	38.7	41.3	47.3	47.3	47.3	48.0	48.0	48.0
≥ 4000	5.3	26.7	30.7	34.0	40.7	43.3	49.3	49.3	49.3	50.0	50.0	50.0
≥ 3500	5.3	29.3	33.3	36.7	43.3	46.0	52.0	52.0	52.0	52.7	52.7	52.7
≥ 3000	6.0	32.7	37.3	40.7	47.3	50.0	56.7	56.7	56.7	57.3	57.3	57.3
≥ 2500	7.3	38.0	42.7	46.0	52.7	56.0	62.7	62.7	62.7	63.3	63.3	63.3
≥ 2000	8.0	42.7	48.7	52.7	61.3	66.0	73.3	73.3	73.3	74.0	74.0	74.0
≥ 1800	8.0	43.3	49.3	53.3	62.7	68.0	75.3	75.3	75.3	76.0	76.0	76.0
≥ 1500	8.0	48.7	57.3	62.7	75.3	80.7	89.3	89.3	89.3	90.0	90.0	90.0
≥ 1200	8.0	49.3	58.0	63.3	76.7	82.7	92.0	92.0	92.0	92.7	92.7	92.7
≥ 1000	8.0	49.3	58.7	64.7	78.0	85.3	96.0	96.0	96.0	97.3	97.3	97.3
≥ 900	8.0	49.3	58.7	64.7	78.0	85.3	96.7	96.7	96.7	98.7	98.7	98.7
≥ 800	8.0	49.3	58.7	64.7	78.0	85.3	96.7	96.7	96.7	98.7	98.7	98.7
≥ 700	8.0	49.3	58.7	64.7	78.0	85.3	96.7	96.7	96.7	99.3	99.3	99.3
≥ 600	8.0	49.3	58.7	64.7	78.0	85.3	96.7	96.7	96.7	99.3	99.3	99.3
≥ 500	8.0	49.3	58.7	64.7	78.0	85.3	96.7	96.7	96.7	99.3	99.3	99.3
≥ 400	8.0	49.3	58.7	64.7	78.0	85.3	96.7	96.7	96.7	100.0	100.0	100.0
≥ 300	8.0	49.3	58.7	64.7	78.0	85.3	96.7	96.7	96.7	100.0	100.0	100.0
≥ 200	8.0	49.3	58.7	64.7	78.0	85.3	96.7	96.7	96.7	100.0	100.0	100.0
≥ 100	8.0	49.3	58.7	64.7	78.0	85.3	96.7	96.7	96.7	100.0	100.0	100.0
0	8.0	49.3	58.7	64.7	78.0	85.3	96.7	96.7	96.7	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	7.3	47.3	55.3	60.7	67.3	70.0	70.7	72.0	72.0	72.0	72.0	72.0	72.0
≥ 20000	7.3	48.0	56.0	61.3	68.7	71.3	72.0	73.3	73.3	73.3	73.3	73.3	73.3
≥ 18000	7.3	48.7	56.7	62.0	69.3	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0
≥ 16000	7.3	48.7	56.7	62.0	69.3	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0
≥ 14000	7.3	48.7	56.7	62.0	69.3	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0
≥ 12000	7.3	49.3	57.3	63.3	70.7	73.3	74.0	75.3	75.3	75.3	75.3	75.3	75.3
≥ 10000	7.3	50.0	58.0	64.0	71.3	74.0	74.7	76.0	76.0	76.0	76.0	76.0	76.0
≥ 9000	7.3	50.0	58.0	64.0	71.3	74.0	74.7	76.0	76.0	76.0	76.0	76.0	76.0
≥ 8000	7.3	50.0	58.7	64.7	72.0	74.7	75.3	76.7	76.7	76.7	76.7	76.7	76.7
≥ 7000	7.3	50.0	58.7	64.7	72.0	75.3	76.0	77.3	77.3	77.3	77.3	77.3	77.3
≥ 6000	7.3	50.0	58.7	64.7	72.0	75.3	76.0	77.3	77.3	77.3	77.3	77.3	77.3
≥ 5000	7.3	50.0	58.7	64.7	72.0	75.3	76.0	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4500	7.3	50.0	58.7	64.7	72.0	75.3	76.0	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4000	7.3	50.7	59.3	65.3	73.3	76.0	76.7	78.0	78.0	78.0	78.0	78.0	78.0
≥ 3500	7.3	52.7	61.3	67.3	75.3	78.0	78.7	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3000	7.3	56.7	65.3	71.3	80.7	83.3	84.0	85.3	85.3	85.3	85.3	85.3	85.3
≥ 2500	7.3	58.0	66.7	72.7	82.0	84.7	86.0	87.3	87.3	87.3	87.3	87.3	87.3
≥ 2000	7.3	59.3	69.3	76.0	86.0	88.7	90.0	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1800	7.3	59.3	69.3	76.0	86.7	89.3	90.7	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1500	7.3	62.7	73.3	80.0	90.7	93.3	94.7	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1200	7.3	62.7	73.3	80.0	90.7	93.3	95.3	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1000	7.3	63.3	74.0	80.7	92.0	94.7	98.0	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900	7.3	63.3	74.0	80.7	92.0	94.7	98.0	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800	7.3	63.3	74.0	80.7	92.0	94.7	98.0	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700	7.3	63.3	74.0	80.7	92.0	94.7	98.0	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600	7.3	63.3	74.0	80.7	92.0	95.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	7.3	63.3	74.0	80.7	92.0	95.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	7.3	63.3	74.0	80.7	92.0	95.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	7.3	63.3	74.0	80.7	92.0	95.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	7.3	63.3	74.0	80.7	92.0	95.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	7.3	63.3	74.0	80.7	92.0	95.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0
0	7.3	63.3	74.0	80.7	92.0	95.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

SEP
MONTH

16
HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)		VISIBILITY (STATUTE MILES)														
		≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		14.0	58.7	64.0	70.0	73.3	73.3	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 20000		14.0	59.3	65.3	71.3	74.7	74.7	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 18000		14.0	60.0	66.0	72.0	75.3	75.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 16000		14.0	60.0	66.0	72.0	75.3	75.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 14000		14.0	60.0	66.0	72.0	75.3	75.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 12000		14.0	62.0	68.0	74.0	77.3	77.3	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 10000		14.0	62.0	68.0	74.0	77.3	78.0	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 9000		14.0	62.0	68.0	74.0	77.3	78.0	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
AI AI	8000	14.0	63.3	69.3	75.3	78.7	79.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
AI AI	7000	14.0	63.3	69.3	75.3	78.7	79.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
AI AI	6000	14.0	63.3	69.3	75.3	78.7	79.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
AI AI	5000	14.0	64.0	70.0	76.0	79.3	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
AI AI	4500	14.7	64.7	70.7	77.3	80.7	81.3	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
AI AI	4000	14.7	65.3	72.0	78.7	82.0	82.7	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
AI AI	3500	14.7	66.0	72.7	79.3	82.7	83.3	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
AI AI	3000	14.7	69.3	76.0	82.7	86.0	86.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
AI AI	2500	14.7	70.7	77.3	84.0	87.3	88.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
AI AI	2000	14.7	74.0	80.7	88.7	92.7	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
AI AI	1800	14.7	74.0	80.7	88.7	92.7	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
AI AI	1500	14.7	75.3	82.0	90.0	94.0	95.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
AI AI	1200	14.7	75.3	82.7	90.7	94.7	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
AI AI	1000	14.7	75.3	82.7	91.3	95.3	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
AI AI	900	14.7	76.0	83.3	92.0	96.0	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
AI AI	800	14.7	76.0	83.3	92.0	96.0	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
AI AI	700	14.7	76.0	83.3	92.0	96.0	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
AI AI	600	14.7	76.0	83.3	92.0	96.0	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
AI AI	500	14.7	76.7	84.0	92.7	96.7	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AI AI	400	14.7	76.7	84.0	92.7	96.7	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AI AI	300	14.7	76.7	84.0	92.7	96.7	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AI AI	200	14.7	76.7	84.0	92.7	96.7	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AI AI	100	14.7	76.7	84.0	92.7	96.7	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AI AI	0	14.7	76.7	84.0	92.7	96.7	98.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

SEP

MONTH

19

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	6.0	54.0	57.3	59.3	64.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3
≥ 20000	6.0	55.3	59.3	61.3	66.7	66.7	67.3	67.3	67.3	67.3	67.3	67.3
≥ 18000	6.0	55.3	59.3	61.3	66.7	66.7	67.3	67.3	67.3	67.3	67.3	67.3
≥ 16000	6.0	55.3	59.3	61.3	66.7	66.7	67.3	67.3	67.3	67.3	67.3	67.3
≥ 14000	6.0	56.7	60.7	62.7	68.0	68.0	68.7	68.7	68.7	68.7	68.7	68.7
≥ 12000	6.0	57.3	61.3	63.3	68.7	68.7	69.3	69.3	69.3	69.3	69.3	69.3
≥ 10000	6.0	58.0	62.0	64.0	69.3	70.0	70.7	70.7	70.7	70.7	70.7	70.7
≥ 9000	6.0	58.0	62.0	64.0	69.3	70.0	70.7	70.7	70.7	70.7	70.7	70.7
≥ 8000	6.0	58.0	62.0	64.0	69.3	70.0	70.7	70.7	70.7	70.7	70.7	70.7
≥ 7000	6.0	59.3	63.3	65.3	70.7	71.3	72.0	72.0	72.0	72.0	72.0	72.0
≥ 6000	6.0	59.3	63.3	65.3	70.7	71.3	72.0	72.0	72.0	72.0	72.0	72.0
≥ 5000	6.0	60.0	64.0	66.0	71.3	72.0	72.7	72.7	72.7	72.7	72.7	72.7
≥ 4500	6.0	60.0	64.0	66.0	71.3	72.0	72.7	72.7	72.7	72.7	72.7	72.7
≥ 4000	6.0	60.7	64.7	66.7	72.0	72.7	73.3	73.3	73.3	73.3	73.3	73.3
≥ 3500	6.0	62.0	66.0	68.0	73.3	74.0	74.7	74.7	74.7	74.7	74.7	74.7
≥ 3000	6.0	66.7	70.7	72.7	78.0	78.7	79.3	79.3	79.3	79.3	79.3	79.3
≥ 2500	6.0	69.3	73.3	75.3	80.7	81.3	82.0	82.0	82.0	82.0	82.0	82.0
≥ 2000	6.0	73.3	78.0	80.0	86.7	87.3	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1800	6.0	73.3	78.0	80.0	86.7	87.3	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1500	6.0	74.7	80.0	82.0	89.3	90.0	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1200	6.7	76.7	83.3	86.0	94.0	94.7	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1000	6.7	78.0	84.7	88.0	96.0	96.7	98.0	98.0	98.0	98.0	98.0	98.0
≥ 900	6.7	78.0	84.7	88.0	96.0	96.7	98.0	98.0	98.0	98.0	98.0	98.0
≥ 800	6.7	78.0	84.7	88.0	96.0	96.7	98.0	98.0	98.0	98.0	98.0	98.0
≥ 700	6.7	78.0	84.7	88.0	96.0	96.7	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600	6.7	78.0	84.7	88.0	96.0	96.7	98.0	98.0	98.0	98.0	98.0	98.0
≥ 500	6.7	78.0	84.7	88.0	96.0	96.7	98.0	98.0	98.0	98.0	98.0	98.0
≥ 400	6.7	78.0	84.7	88.0	96.0	96.7	98.0	98.0	98.0	98.0	98.0	98.0
≥ 300	6.7	78.0	84.7	88.0	96.0	96.7	98.0	98.0	98.0	98.0	98.0	98.0
≥ 200	6.7	78.0	84.7	88.0	96.0	96.7	98.0	98.0	98.0	98.0	98.0	98.0
≥ 100	6.7	78.0	84.7	88.0	96.0	96.7	98.0	98.0	98.0	98.0	98.0	98.0
0	6.7	78.0	84.7	88.0	96.0	96.7	98.0	98.0	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA

STATION NAME

73-77

YEARS

SEP

MONTH

22

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	3.3	52.0	56.0	58.0	60.0	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 20000	3.3	53.3	57.3	59.3	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 18000	3.3	53.3	57.3	59.3	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 16000	3.3	53.3	57.3	59.3	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 14000	3.3	53.3	57.3	59.3	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 12000	3.3	53.3	57.3	59.3	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 10000	3.3	54.7	58.7	60.7	63.3	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 9000	3.3	54.7	58.7	60.7	63.3	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 8000	3.3	55.3	59.3	61.3	64.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 7000	3.3	55.3	59.3	61.3	64.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 6000	3.3	55.0	60.0	62.0	64.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 5000	3.3	57.3	61.3	63.3	66.0	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 4500	3.3	58.0	62.0	64.0	66.7	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 4000	3.3	58.0	62.0	64.0	66.7	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 3500	3.3	58.0	62.0	64.0	66.7	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 3000	4.0	58.7	62.7	64.7	67.3	67.3	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 2500	4.0	62.7	66.7	68.7	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 2000	4.0	70.0	74.0	76.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 1800	4.0	70.7	74.7	76.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 1500	4.0	74.7	80.7	82.7	86.7	86.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 1200	4.7	76.7	84.0	86.7	90.7	90.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1000	4.7	78.0	85.3	90.0	94.7	94.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 900	4.7	78.0	86.0	90.7	96.0	96.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800	4.7	78.0	86.0	90.7	96.0	96.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	4.7	78.7	86.7	91.3	96.7	96.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600	4.7	78.7	86.7	91.3	96.7	96.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500	4.7	78.7	86.7	91.3	97.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	4.7	78.7	86.7	91.3	97.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	4.7	78.7	86.7	91.3	97.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200	4.7	78.7	86.7	91.3	97.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100	4.7	78.7	86.7	91.3	97.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 0	4.7	78.7	86.7	91.3	97.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

03114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	5.5	40.1	44.2	46.8	50.9	51.7	53.0	53.3	53.4	53.7	53.7	53.7	53.8
≥ 20000	5.5	40.9	45.3	47.9	52.3	53.0	54.3	54.7	54.8	55.0	55.0	55.0	55.1
≥ 18000	5.5	41.1	45.4	48.2	52.5	53.3	54.6	54.9	55.0	55.3	55.3	55.3	55.3
≥ 16000	5.5	41.1	45.4	48.2	52.5	53.3	54.6	54.9	55.0	55.3	55.3	55.3	55.3
≥ 14000	5.5	41.5	45.8	48.6	53.0	53.8	55.1	55.4	55.5	55.8	55.8	55.8	55.8
≥ 12000	5.6	42.2	46.5	49.3	53.8	54.5	55.8	56.2	56.3	56.5	56.5	56.5	56.6
≥ 10000	5.6	42.9	47.3	50.1	54.6	55.5	56.8	57.2	57.3	57.5	57.5	57.5	57.6
≥ 9000	5.6	42.9	47.3	50.1	54.6	55.5	56.8	57.2	57.3	57.5	57.5	57.5	57.6
≥ 8000	5.6	43.3	47.8	50.6	55.1	56.0	57.3	57.7	57.8	58.0	58.0	58.0	58.1
≥ 7000	5.6	43.6	48.0	50.8	55.6	56.5	57.8	58.2	58.3	58.5	58.5	58.5	58.6
≥ 6000	5.6	43.7	48.1	50.9	55.7	56.6	57.9	58.3	58.3	58.6	58.6	58.6	58.7
≥ 5000	5.6	44.2	48.6	51.5	56.3	57.2	58.5	58.8	58.9	59.2	59.2	59.2	59.3
≥ 4500	5.7	44.5	48.9	51.9	56.7	57.6	58.9	59.3	59.3	59.6	59.6	59.6	59.7
≥ 4000	5.7	45.3	49.8	52.8	57.5	58.4	59.8	60.1	60.2	60.4	60.4	60.4	60.7
≥ 3500	5.7	46.3	50.8	53.8	58.6	59.5	60.8	61.2	61.3	61.5	61.5	61.5	61.6
≥ 3000	5.8	48.8	53.4	56.4	61.4	62.3	63.8	64.1	64.2	64.4	64.4	64.4	64.7
≥ 2500	6.0	51.3	56.0	59.0	64.2	65.3	66.8	67.1	67.3	67.5	67.5	67.5	67.8
≥ 2000	6.3	56.2	61.4	64.8	71.2	72.6	74.3	74.6	74.8	75.0	75.0	75.0	75.1
≥ 1800	6.3	56.8	62.1	65.5	72.0	73.5	75.2	75.5	75.7	75.9	75.9	75.9	76.2
≥ 1500	6.3	61.5	68.0	71.9	79.3	80.8	82.9	83.4	83.6	83.8	83.8	83.8	84.1
≥ 1200	6.5	63.1	70.3	74.5	82.4	84.1	86.7	87.2	87.3	87.7	87.7	87.7	87.9
≥ 1000	6.5	64.6	72.1	77.3	86.3	88.4	91.8	92.5	92.7	93.2	93.2	93.2	93.4
≥ 900	6.5	65.0	72.6	78.1	87.3	89.4	93.3	94.1	94.3	94.8	94.8	94.8	95.0
≥ 800	6.5	65.0	72.8	78.3	87.6	89.8	93.8	94.7	94.8	95.4	95.4	95.4	95.7
≥ 700	6.5	65.3	73.1	78.6	88.2	90.3	94.5	95.4	95.6	96.3	96.3	96.3	96.6
≥ 600	6.5	65.3	73.2	78.7	88.3	90.5	94.8	95.9	96.3	96.8	96.8	96.8	97.1
≥ 500	6.5	65.5	73.4	78.9	88.7	90.9	95.2	96.5	96.8	97.7	97.7	97.7	98.0
≥ 400	6.5	65.5	73.4	78.9	88.8	91.2	95.5	96.8	97.2	98.1	98.2	98.3	98.6
≥ 300	6.5	65.5	73.4	78.9	88.9	91.3	95.7	97.1	97.4	98.3	98.4	98.4	98.9
≥ 200	6.5	65.5	73.4	78.9	88.9	91.3	95.7	97.1	97.4	98.4	98.5	98.5	99.1
≥ 100	6.5	65.5	73.4	78.9	88.9	91.3	95.7	97.1	97.4	98.4	98.5	98.5	99.3
0	6.5	65.5	73.4	78.9	88.9	91.3	95.7	97.1	97.4	98.4	98.5	98.5	99.3

TOTAL NUMBER OF OBSERVATIONS

1200

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	5.2	40.7	43.2	47.7	52.3	52.3	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 20000	5.2	40.7	43.2	47.7	53.6	53.6	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 18000	5.2	40.7	43.2	47.7	53.6	53.6	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 16000	5.2	40.7	43.2	48.4	54.2	54.2	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 14000	5.2	40.7	43.2	48.4	54.2	54.2	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 12000	5.2	41.3	43.9	49.0	54.8	54.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 10000	5.2	42.6	45.2	50.3	56.1	56.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 9000	5.2	42.6	45.2	50.3	56.1	56.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 8000	5.8	44.5	47.1	52.3	58.1	58.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 7000	5.8	44.5	47.1	52.3	58.1	58.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 6000	5.8	44.5	47.1	52.3	58.1	58.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 5000	5.8	45.2	47.7	52.9	58.7	58.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 4500	5.8	45.2	47.7	52.9	58.7	58.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 4000	5.8	46.5	49.0	54.2	60.0	60.0	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 3500	5.8	47.1	49.7	54.8	60.7	60.7	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 3000	6.5	49.0	51.6	56.8	62.6	62.6	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 2500	7.7	53.6	56.1	61.9	67.7	67.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 2000	7.7	56.1	59.4	65.2	71.0	71.0	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 1800	7.7	56.1	59.4	65.2	71.0	71.0	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 1500	7.7	61.3	66.5	72.9	78.7	78.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 1200	7.7	61.3	66.5	72.9	78.7	78.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 1000	7.7	63.2	69.0	76.8	83.9	83.9	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 900	7.7	63.9	69.7	77.4	84.5	84.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 800	7.7	64.5	70.3	78.1	85.2	85.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 700	7.7	64.5	70.3	78.1	85.8	85.8	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 600	7.7	64.5	70.3	78.7	85.8	85.8	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 500	7.7	64.5	70.3	78.7	85.8	85.8	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 400	7.7	64.5	70.3	78.7	85.8	85.8	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 300	7.7	64.5	70.3	78.7	85.8	85.8	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 200	7.7	64.5	70.3	78.7	85.8	85.8	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 100	7.7	64.5	70.3	78.7	85.8	85.8	87.7	87.7	87.7	87.7	87.7	87.7	87.7
0	7.7	64.5	70.3	78.7	85.8	85.8	87.7	87.7	87.7	87.7	87.7	87.7	87.7

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	5.8	38.1	40.0	41.9	43.2	43.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 20000	5.8	38.1	40.0	41.9	43.2	43.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 18000	5.8	38.1	40.0	41.9	43.2	43.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 16000	5.8	38.1	40.0	41.9	43.2	43.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 14000	5.8	38.1	40.0	41.9	43.2	43.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 12000	5.8	38.7	40.7	42.6	43.9	43.9	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 10000	5.8	40.7	42.6	44.5	45.8	45.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 9000	5.8	40.7	42.6	44.5	45.8	45.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 8000	5.8	40.7	42.6	44.5	45.8	45.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 7000	5.8	40.7	42.6	44.5	45.8	45.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 6000	5.8	40.7	42.6	44.5	45.8	45.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 5000	5.8	41.9	43.9	45.8	47.1	47.1	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 4500	5.8	41.9	43.9	45.8	47.1	47.1	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 4000	5.8	43.2	45.8	47.7	49.0	49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 3500	5.8	43.9	46.5	48.4	49.7	49.7	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 3000	6.5	45.2	47.7	49.7	51.0	51.0	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 2500	6.5	47.7	51.0	52.9	54.8	54.8	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 2000	6.5	51.0	54.8	56.8	59.4	59.4	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 1800	6.5	51.0	54.8	56.8	59.4	59.4	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 1500	6.5	51.0	54.8	56.8	59.4	59.4	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 1200	6.5	58.7	63.9	67.1	69.7	69.7	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 1000	6.5	60.0	65.2	69.7	72.9	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 900	6.5	60.7	65.8	70.3	73.6	73.6	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 800	6.5	60.7	67.1	71.6	74.8	74.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 700	6.5	61.3	67.7	72.3	75.5	75.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 600	6.5	61.3	67.7	72.3	76.1	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 500	6.5	61.3	67.7	72.3	76.1	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 400	6.5	61.3	67.7	72.3	76.1	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 300	6.5	61.3	67.7	72.3	76.1	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 200	6.5	61.3	67.7	72.3	76.1	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 100	6.5	61.3	67.7	72.3	76.1	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4
0	6.5	61.3	67.7	72.3	76.1	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4

TOTAL NUMBER OF OBSERVATIONS 155

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

0CT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	11.0	23.9	26.5	27.7	29.0	29.0	31.0	33.6	34.2	34.2	34.2	34.8	34.8	34.8
≥ 20000	12.3	26.5	29.0	30.3	32.3	32.3	34.8	37.4	38.1	38.1	38.1	38.7	38.7	38.7
≥ 18000	12.3	26.5	29.0	30.3	32.3	32.3	34.8	37.4	38.1	38.1	38.1	38.7	38.7	38.7
≥ 16000	12.3	26.5	29.0	30.3	32.3	32.3	34.8	37.4	38.1	38.1	38.1	38.7	38.7	38.7
≥ 14000	12.3	26.5	29.0	30.3	32.3	32.3	34.8	37.4	38.1	38.1	38.1	38.7	38.7	38.7
≥ 12000	12.3	27.1	29.7	31.0	33.6	33.6	36.1	39.4	39.4	40.0	40.0	40.7	40.7	41.3
≥ 10000	12.3	28.4	31.6	32.9	35.5	35.5	38.1	41.3	41.3	41.9	41.9	42.6	42.6	43.2
≥ 9000	12.3	28.4	31.6	32.9	35.5	35.5	38.1	41.3	41.3	41.9	41.9	42.6	42.6	43.2
≥ 8000	12.3	28.4	31.6	32.9	35.5	35.5	38.1	41.3	41.3	41.9	41.9	42.6	42.6	43.2
≥ 7000	12.3	29.0	32.3	33.6	36.1	36.1	38.7	41.9	41.9	42.6	42.6	43.2	43.2	43.9
≥ 6000	12.3	30.3	33.6	34.8	37.4	37.4	40.7	44.5	44.5	45.2	45.2	45.8	45.8	46.5
≥ 5000	12.3	31.0	34.2	35.5	38.1	38.7	41.3	45.2	45.2	45.8	45.8	46.5	46.5	47.1
≥ 4500	12.3	31.0	34.2	35.5	38.1	38.7	41.3	45.2	45.2	45.8	45.8	46.5	46.5	47.1
≥ 4000	12.3	31.0	34.2	35.5	38.1	38.7	41.3	45.2	45.2	45.8	45.8	46.5	46.5	47.1
≥ 3500	12.3	31.6	34.8	36.1	38.7	39.4	41.9	45.8	45.8	46.5	46.5	47.1	47.1	47.7
≥ 3000	14.8	36.1	40.0	41.3	43.9	45.2	47.7	51.6	51.6	52.3	52.3	52.9	52.9	53.6
≥ 2500	15.5	38.1	42.6	43.9	46.5	47.7	50.3	54.2	54.2	54.8	54.8	55.5	55.5	56.8
≥ 2000	15.5	43.2	48.4	50.3	52.9	54.2	57.4	61.3	61.3	61.9	61.9	62.6	62.6	63.9
≥ 1800	15.5	43.2	48.4	50.3	52.9	54.2	57.4	61.3	61.3	61.9	61.9	62.6	62.6	63.9
≥ 1500	15.5	46.5	52.9	54.8	58.7	60.7	64.5	69.0	69.0	69.7	69.7	70.3	70.3	71.6
≥ 1200	15.5	46.5	52.9	54.8	59.4	61.3	65.8	70.3	70.3	71.0	71.0	71.6	71.6	72.9
≥ 1000	15.5	47.7	54.8	57.4	61.9	63.9	69.0	73.6	74.2	75.5	75.5	76.1	76.1	77.4
≥ 900	15.5	47.7	54.8	57.4	62.6	64.5	69.7	74.2	74.8	76.1	76.1	76.8	76.8	78.1
≥ 800	15.5	47.7	54.8	57.4	62.6	65.2	70.3	74.8	75.5	76.8	76.8	77.4	77.4	78.7
≥ 700	15.5	47.7	55.5	58.7	63.9	65.8	71.0	76.1	76.8	78.1	78.1	78.7	78.7	80.0
≥ 600	15.5	47.7	55.5	58.7	63.9	66.5	71.6	76.8	77.4	80.0	80.0	80.7	80.7	81.9
≥ 500	15.5	47.7	55.5	58.7	64.5	67.1	72.9	78.7	79.4	83.9	83.9	85.2	85.2	86.5
≥ 400	15.5	48.4	56.1	59.4	65.2	67.7	73.6	79.4	80.0	84.5	84.5	85.8	85.8	87.1
≥ 300	15.5	48.4	56.1	59.4	65.2	67.7	73.6	79.4	80.0	86.5	87.1	89.0	89.0	91.0
≥ 200	15.5	48.4	56.1	59.4	65.2	67.7	73.6	79.4	80.0	87.1	87.7	89.7	89.7	91.6
≥ 100	15.5	48.4	56.1	59.4	65.2	67.7	73.6	79.4	80.0	87.1	87.7	89.7	89.7	91.6
≥ 0	15.5	48.4	56.1	59.4	65.2	67.7	73.6	79.4	80.0	87.1	87.7	89.7	89.7	91.6

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93114
3727008

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	16.1	30.3	32.3	35.5	36.8	38.7	44.5	49.0	50.3	52.3	52.3	52.3
≥ 20000	16.1	31.6	34.2	37.4	38.7	40.7	46.5	51.0	52.3	54.2	54.2	54.2
≥ 18000	16.1	31.6	34.2	37.4	38.7	40.7	46.5	51.0	52.3	54.2	54.2	54.2
≥ 16000	16.1	31.6	34.2	37.4	38.7	40.7	46.5	51.0	52.3	54.2	54.2	54.2
≥ 14000	16.1	32.3	34.8	38.1	39.4	41.3	47.1	51.6	52.9	54.8	54.8	54.8
≥ 12000	16.1	32.3	34.8	38.1	39.4	41.3	47.1	51.6	52.9	54.8	54.8	54.8
≥ 10000	16.1	32.3	35.5	39.4	41.9	43.9	49.7	54.2	56.1	58.1	58.1	58.1
≥ 9000	16.1	32.3	35.5	39.4	41.9	43.9	49.7	54.2	56.1	58.1	58.1	58.1
≥ 8000	16.8	32.9	36.1	40.0	42.6	44.5	50.3	54.8	56.8	58.7	58.7	58.7
≥ 7000	16.8	33.6	36.8	40.7	43.2	45.2	51.0	56.1	58.1	60.0	60.0	60.0
≥ 6000	16.8	33.6	36.8	40.7	43.2	45.2	51.0	56.1	58.1	60.0	60.0	60.0
≥ 5000	16.8	33.6	36.8	40.7	43.2	45.2	51.0	56.1	58.1	60.0	60.0	60.0
≥ 4500	16.8	33.6	36.8	40.7	43.2	45.2	51.0	56.1	58.1	60.0	60.0	60.0
≥ 4000	17.4	34.2	37.4	41.3	43.9	45.8	51.6	56.8	58.7	60.7	60.7	60.7
≥ 3500	18.7	37.4	40.7	44.5	47.1	49.0	54.8	60.0	61.9	63.9	63.9	63.9
≥ 3000	20.0	41.3	44.5	48.4	51.0	52.9	58.7	63.9	65.8	67.7	67.7	67.7
≥ 2500	21.3	45.2	48.4	52.9	55.5	57.4	63.2	68.4	70.3	72.3	72.3	72.3
≥ 2000	21.9	50.3	53.6	58.1	62.6	64.5	71.0	76.1	78.1	80.0	80.0	80.0
≥ 1800	22.6	51.0	54.2	58.7	63.9	65.8	72.3	77.4	79.4	81.3	81.3	81.3
≥ 1500	23.2	54.2	57.4	62.6	68.4	71.6	78.1	83.2	85.2	87.1	87.1	87.1
≥ 1200	23.2	54.8	58.1	63.2	69.0	72.3	79.4	84.5	87.1	89.0	89.0	89.0
≥ 1000	23.2	55.5	60.0	65.8	71.6	74.8	83.2	90.3	93.6	95.5	95.5	95.5
≥ 900	23.2	55.5	60.0	65.8	71.6	74.8	83.2	90.3	93.6	95.5	95.5	95.5
≥ 800	23.2	55.5	60.0	65.8	72.3	76.1	84.5	91.6	94.8	96.8	96.8	96.8
≥ 700	23.2	55.5	60.0	65.8	72.3	76.1	85.2	92.3	95.5	97.4	97.4	97.4
≥ 600	23.2	55.5	60.0	65.8	72.3	76.1	85.2	92.3	95.5	98.1	98.1	98.1
≥ 500	23.2	55.5	60.0	65.8	72.3	76.1	85.2	92.3	96.1	98.7	98.7	98.7
≥ 400	23.2	55.5	60.0	65.8	72.3	76.1	85.2	92.3	96.1	98.7	98.7	98.7
≥ 300	23.2	55.5	60.0	65.8	72.3	76.1	85.2	92.3	96.1	98.7	98.7	98.7
≥ 200	23.2	55.5	60.0	65.8	72.3	76.1	85.2	92.3	96.1	98.7	98.7	98.7
≥ 100	23.2	55.5	60.0	65.8	72.3	76.1	85.2	92.3	96.1	98.7	98.7	98.7
0	23.2	55.5	60.0	65.8	72.3	76.1	85.2	92.3	96.1	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16	≥ ¼	≥ 0
NO CEILING	20.7	41.3	46.5	48.4	57.4	61.3	69.7	70.3	71.6	71.6	71.6	71.6	71.6	71.6
≥ 20000	20.7	42.6	47.7	50.3	60.0	63.9	72.9	73.6	75.5	75.5	75.5	75.5	75.5	75.5
≥ 18000	20.7	43.2	48.4	51.0	60.7	64.5	73.6	74.2	76.1	76.1	76.1	76.1	76.1	76.1
≥ 16000	20.7	43.2	48.4	51.0	60.7	64.5	73.6	74.2	76.1	76.1	76.1	76.1	76.1	76.1
≥ 14000	20.7	43.2	48.4	51.0	60.7	64.5	73.6	74.2	76.1	76.1	76.1	76.1	76.1	76.1
≥ 12000	20.7	44.5	49.7	52.3	62.6	66.5	75.5	76.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 10000	20.7	46.5	51.6	54.2	64.5	68.4	77.4	78.1	80.0	80.0	80.0	80.0	80.0	80.0
≥ 9000	20.7	46.5	51.6	54.2	64.5	68.4	77.4	78.1	80.0	80.0	80.0	80.0	80.0	80.0
≥ 8000	20.7	46.5	51.6	54.2	64.5	68.4	77.4	78.1	80.0	80.0	80.0	80.0	80.0	80.0
≥ 7000	20.7	47.1	52.3	54.8	65.2	69.0	78.1	78.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 6000	20.7	47.1	52.3	54.8	65.2	69.0	78.1	79.4	81.3	81.3	81.3	81.3	81.3	81.3
≥ 5000	20.7	47.7	52.9	55.5	65.8	69.7	79.4	80.0	81.9	81.9	81.9	81.9	81.9	81.9
≥ 4500	20.7	47.7	52.9	55.5	65.8	69.7	79.4	80.0	81.9	81.9	81.9	81.9	81.9	81.9
≥ 4000	21.9	49.0	54.2	56.8	67.1	71.0	80.7	81.3	83.2	83.2	83.2	83.2	83.2	83.2
≥ 3500	21.9	49.7	54.8	57.4	67.7	71.6	81.3	81.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 3000	23.9	55.5	60.7	63.2	74.2	78.1	87.7	88.4	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2500	23.9	57.4	62.6	65.2	76.1	80.0	89.7	90.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 2000	25.2	60.0	65.2	67.7	79.4	83.2	92.9	93.6	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1800	25.2	60.7	66.5	69.0	80.7	84.5	94.2	94.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1500	25.2	61.9	67.7	70.3	82.6	86.5	96.1	96.8	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200	25.2	61.9	67.7	70.3	82.6	86.5	96.1	96.8	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000	25.2	62.6	69.0	71.6	83.9	87.7	97.4	98.1	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	25.2	62.6	69.0	71.6	83.9	87.7	97.4	98.1	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	25.2	62.6	69.0	71.6	83.9	87.7	97.4	98.1	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	25.2	62.6	69.0	71.6	83.9	87.7	97.4	98.1	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	25.2	62.6	69.0	71.6	83.9	87.7	97.4	98.1	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	25.2	62.6	69.0	71.6	83.9	87.7	97.4	98.1	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	25.2	62.6	69.0	71.6	83.9	87.7	97.4	98.1	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	25.2	62.6	69.0	71.6	83.9	87.7	97.4	98.1	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	25.2	62.6	69.0	71.6	83.9	87.7	97.4	98.1	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	25.2	62.6	69.0	71.6	83.9	87.7	97.4	98.1	100.0	100.0	100.0	100.0	100.0	100.0
0	25.2	62.6	69.0	71.6	83.9	87.7	97.4	98.1	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	22.6	57.4	61.9	67.7	76.8	77.4	79.4	79.4	79.4	79.4	79.4
≥ 20000	22.6	58.7	63.9	70.3	80.0	80.7	82.6	82.6	82.6	82.6	82.6
≥ 18000	22.6	58.7	63.9	70.3	80.0	80.7	82.6	82.6	82.6	82.6	82.6
≥ 16000	22.6	58.7	63.9	70.3	80.0	80.7	82.6	82.6	82.6	82.6	82.6
≥ 14000	22.6	58.7	63.9	70.3	80.0	80.7	82.6	82.6	82.6	82.6	82.6
≥ 12000	22.6	60.7	65.8	72.3	81.9	82.6	85.2	85.2	85.2	85.2	85.2
≥ 10000	23.2	61.3	66.5	72.9	82.6	83.2	86.5	86.5	86.5	86.5	86.5
≥ 9000	23.2	61.9	67.1	73.6	83.2	83.9	87.1	87.1	87.1	87.1	87.1
≥ 8000	23.2	61.9	67.1	73.6	83.2	83.9	87.1	87.1	87.1	87.1	87.1
≥ 7000	23.2	62.6	67.7	74.2	83.9	84.5	88.4	88.4	88.4	88.4	88.4
≥ 6000	23.2	62.6	67.7	74.2	83.9	84.5	88.4	88.4	88.4	88.4	88.4
≥ 5000	23.2	64.5	69.7	76.1	85.8	86.5	90.3	90.3	90.3	90.3	90.3
≥ 4500	23.2	64.5	69.7	76.1	85.8	86.5	90.3	90.3	90.3	90.3	90.3
≥ 4000	24.5	65.8	71.0	77.4	87.1	87.7	91.6	91.6	91.6	91.6	91.6
≥ 3500	24.5	67.1	72.3	78.7	88.4	89.0	92.9	92.9	92.9	92.9	92.9
≥ 3000	25.2	69.0	74.2	80.7	90.3	91.0	94.8	94.8	94.8	94.8	94.8
≥ 2500	25.8	71.0	76.1	82.6	92.3	92.9	96.8	96.8	96.8	96.8	96.8
≥ 2000	26.5	72.3	77.4	83.9	93.6	94.2	98.1	98.1	98.1	98.1	98.1
≥ 1800	26.5	72.3	77.4	83.9	93.6	94.2	98.1	98.1	98.1	98.1	98.1
≥ 1500	26.5	72.3	77.4	83.9	94.2	94.8	98.7	98.7	98.7	98.7	98.7
≥ 1200	26.5	72.3	77.4	83.9	94.2	94.8	98.7	98.7	98.7	98.7	98.7
≥ 1000	27.1	72.9	78.1	84.5	94.8	95.5	99.4	99.4	99.4	99.4	99.4
≥ 900	27.1	72.9	78.1	84.5	94.8	95.5	99.4	99.4	99.4	99.4	99.4
≥ 800	27.1	72.9	78.1	84.5	94.8	95.5	99.4	99.4	99.4	99.4	99.4
≥ 700	27.1	72.9	78.1	84.5	95.5	96.1	100.0	100.0	100.0	100.0	100.0
≥ 600	27.1	72.9	78.1	84.5	95.5	96.1	100.0	100.0	100.0	100.0	100.0
≥ 500	27.1	72.9	78.1	84.5	95.5	96.1	100.0	100.0	100.0	100.0	100.0
≥ 400	27.1	72.9	78.1	84.5	95.5	96.1	100.0	100.0	100.0	100.0	100.0
≥ 300	27.1	72.9	78.1	84.5	95.5	96.1	100.0	100.0	100.0	100.0	100.0
≥ 200	27.1	72.9	78.1	84.5	95.5	96.1	100.0	100.0	100.0	100.0	100.0
≥ 100	27.1	72.9	78.1	84.5	95.5	96.1	100.0	100.0	100.0	100.0	100.0
0	27.1	72.9	78.1	84.5	95.5	96.1	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	11.0	59.4	67.1	67.7	73.6	74.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 20000	11.0	60.7	69.0	69.7	76.1	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 18000	11.0	60.7	69.0	69.7	76.1	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 16000	11.0	60.7	69.0	69.7	76.1	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 14000	11.0	61.3	69.7	70.3	76.8	77.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 12000	11.0	61.9	70.3	71.0	77.4	78.1	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 10000	11.0	61.9	70.3	71.0	78.1	78.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 9000	11.0	62.6	71.0	71.6	78.7	79.4	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 8000	11.0	63.2	71.6	72.3	79.4	80.0	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 7000	11.0	63.2	71.6	72.3	80.0	80.7	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 6000	11.0	63.2	71.6	72.3	80.0	80.7	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 5000	11.0	63.9	72.3	72.9	80.7	81.3	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 4500	11.0	65.2	73.6	74.2	81.9	82.6	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 4000	11.0	65.8	74.2	74.8	82.6	83.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 3500	11.0	65.8	74.2	74.8	82.6	83.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 3000	11.0	67.1	76.1	76.8	84.5	85.2	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 2500	11.6	71.0	79.4	80.0	87.7	88.4	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2000	13.6	74.8	83.2	84.5	92.3	92.9	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1800	13.6	74.8	83.2	85.2	92.9	93.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1500	14.2	76.1	84.5	87.1	95.5	96.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200	14.2	76.1	84.5	87.7	96.1	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	14.2	76.1	84.5	87.7	96.1	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	14.2	76.1	84.5	87.7	96.1	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	14.2	76.1	84.5	87.7	96.1	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	14.2	76.1	84.5	87.7	96.1	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	14.2	76.1	84.5	87.7	96.1	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	14.2	76.1	84.5	87.7	96.1	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	14.2	76.1	84.5	87.7	96.1	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	14.2	76.1	84.5	87.7	96.1	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200	14.2	76.1	84.5	87.7	96.1	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100	14.2	76.1	84.5	87.7	96.1	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 0	14.2	76.1	84.5	87.7	96.1	96.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

03114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

UCT
MONTH

22

HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														≥ 0
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	
NO CEILING	7.7	45.2	51.0	54.8	60.7	61.3	61.9	62.6	62.6	62.6	62.6	62.6	62.6	63.2	63.2
≥ 20000	7.7	47.7	53.6	58.7	64.5	65.2	65.8	66.5	66.5	66.5	66.5	66.5	66.5	67.1	67.1
≥ 18000	7.7	47.7	53.6	58.7	64.5	65.2	65.8	66.5	66.5	66.5	66.5	66.5	66.5	67.1	67.1
≥ 16000	7.7	47.7	53.6	58.7	64.5	65.2	65.8	66.5	66.5	66.5	66.5	66.5	66.5	67.1	67.1
≥ 14000	7.7	47.7	53.6	58.7	64.5	65.2	65.8	66.5	66.5	66.5	66.5	66.5	66.5	67.1	67.1
≥ 12000	7.7	47.7	53.6	58.7	64.5	65.2	65.8	66.5	66.5	66.5	66.5	66.5	66.5	67.1	67.1
≥ 10000	8.4	49.0	54.8	60.0	65.8	66.5	67.1	67.7	67.7	67.7	67.7	67.7	67.7	68.4	68.4
≥ 9000	8.4	49.0	54.8	60.0	65.8	66.5	67.1	67.7	67.7	67.7	67.7	67.7	67.7	68.4	68.4
≥ 8000	8.4	50.3	56.1	61.3	67.1	67.7	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.7	69.7
≥ 7000	8.4	51.0	56.8	61.9	67.7	68.4	69.0	69.7	69.7	69.7	69.7	69.7	69.7	70.3	70.3
≥ 6000	8.4	51.0	56.8	61.9	67.7	68.4	69.0	69.7	69.7	69.7	69.7	69.7	69.7	70.3	70.3
≥ 5000	8.4	51.6	57.4	62.6	69.0	69.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.6	71.6
≥ 4500	8.4	52.3	58.1	63.2	69.7	70.3	71.0	71.6	71.6	71.6	71.6	71.6	71.6	72.3	72.3
≥ 4000	9.0	52.9	58.7	63.9	70.3	71.0	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.9	72.9
≥ 3500	9.0	53.6	59.4	64.5	71.0	71.6	72.3	72.9	72.9	72.9	72.9	72.9	72.9	73.6	73.6
≥ 3000	9.7	58.1	63.9	69.0	75.5	76.1	76.8	77.4	77.4	77.4	77.4	77.4	77.4	78.1	78.1
≥ 2500	9.7	59.4	65.2	70.3	76.8	77.4	78.1	78.7	78.7	78.7	78.7	78.7	78.7	79.4	79.4
≥ 2000	9.7	61.9	68.4	73.6	80.0	80.7	81.3	81.9	81.9	81.9	81.9	81.9	81.9	82.6	82.6
≥ 1800	9.7	62.6	69.0	74.2	80.7	81.3	81.9	82.6	82.6	82.6	82.6	82.6	82.6	83.2	83.2
≥ 1500	9.7	68.4	75.5	80.7	87.1	87.7	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.7	89.7
≥ 1200	9.7	68.4	75.5	80.7	87.1	87.7	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.7	89.7
≥ 1000	9.7	70.3	78.7	84.5	91.6	92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6	94.2	94.2
≥ 900	9.7	70.3	78.7	84.5	91.6	92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6	94.2	94.2
≥ 800	9.7	70.3	78.7	84.5	91.6	92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6	94.2	94.2
≥ 700	9.7	70.3	79.4	85.8	92.9	93.6	94.8	96.1	96.1	96.8	96.8	96.8	96.8	97.4	97.4
≥ 600	9.7	70.3	79.4	85.8	92.9	93.6	94.8	96.1	96.1	96.8	96.8	96.8	96.8	97.4	97.4
≥ 500	9.7	70.3	79.4	85.8	93.6	94.2	95.5	96.0	96.8	97.4	97.4	97.4	97.4	98.1	98.1
≥ 400	9.7	70.3	79.4	85.8	93.6	94.2	95.5	96.8	96.8	97.4	97.4	97.4	97.4	98.1	98.1
≥ 300	9.7	70.3	79.4	85.8	93.6	94.2	95.5	96.8	96.8	97.4	97.4	97.4	97.4	98.1	98.1
≥ 200	9.7	70.3	79.4	85.8	93.6	94.2	95.5	96.8	96.8	97.4	97.4	97.4	97.4	98.1	98.1
≥ 100	9.7	70.3	79.4	85.8	93.6	94.2	95.5	96.8	96.8	97.4	97.4	97.4	97.4	98.1	98.1
0	9.7	70.3	79.4	85.8	93.6	94.2	95.5	96.8	96.8	97.4	97.4	97.4	97.4	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

TEARS

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	12.5	42.0	46.1	49.0	53.7	54.7	57.5	58.6	58.9	59.2	59.2	59.3	59.4	59.5
≥ 20000	12.7	43.3	47.6	50.8	56.1	57.0	60.1	61.1	61.5	61.9	61.9	61.9	62.0	62.3
≥ 18000	12.7	43.4	47.7	50.9	56.2	57.1	60.2	61.2	61.6	61.9	61.9	62.0	62.1	62.3
≥ 16000	12.7	43.4	47.7	51.0	56.2	57.2	60.3	61.4	61.8	62.1	62.1	62.2	62.3	62.5
≥ 14000	12.7	43.6	47.8	51.1	56.4	57.3	60.5	61.5	61.9	62.3	62.3	62.3	62.4	62.7
≥ 12000	12.7	44.3	48.6	51.9	57.3	58.2	61.5	62.7	63.1	63.4	63.4	63.5	63.6	63.8
≥ 10000	12.8	45.3	49.8	53.2	58.8	59.8	63.2	64.3	64.8	65.1	65.1	65.2	65.2	65.5
≥ 9000	12.8	45.5	49.9	53.3	59.0	59.9	63.3	64.4	64.9	65.2	65.2	65.3	65.4	65.7
≥ 8000	13.0	46.1	50.5	53.9	59.5	60.5	63.9	65.0	65.5	65.8	65.8	65.9	66.0	66.2
≥ 7000	13.0	46.5	50.9	54.3	60.0	61.0	64.4	65.7	66.1	66.5	66.5	66.5	66.6	66.9
≥ 6000	13.0	46.6	51.1	54.4	60.2	61.3	64.8	66.1	66.6	66.9	66.9	67.0	67.1	67.3
≥ 5000	13.0	47.4	51.9	55.2	61.1	62.1	65.7	66.9	67.4	67.7	67.7	67.8	67.9	68.2
≥ 4500	13.0	47.7	52.1	55.5	61.3	62.3	65.9	67.2	67.7	68.0	68.0	68.1	68.2	68.4
≥ 4000	13.5	48.6	53.1	56.5	62.3	63.3	66.9	68.2	68.6	69.0	69.0	69.0	69.1	69.4
≥ 3500	13.6	49.5	54.0	57.4	63.2	64.3	67.8	69.1	69.6	69.9	69.9	70.0	70.1	70.3
≥ 3000	14.7	52.7	57.3	60.7	66.6	67.7	71.3	72.6	73.1	73.4	73.4	73.5	73.6	73.8
≥ 2500	15.2	55.4	60.2	63.7	69.7	70.8	74.4	75.7	76.1	76.5	76.5	76.5	76.6	76.9
≥ 2000	15.8	58.7	63.8	67.5	73.9	75.0	78.7	80.0	80.5	80.8	80.8	80.9	81.0	81.3
≥ 1800	15.9	59.0	64.1	67.9	74.4	75.5	79.2	80.5	81.0	81.3	81.3	81.4	81.5	81.8
≥ 1500	16.1	62.3	68.1	72.3	79.2	80.7	84.6	86.0	86.5	86.9	86.9	86.9	87.0	87.3
≥ 1200	16.1	62.5	68.3	72.6	79.6	81.1	85.2	86.5	87.2	87.5	87.5	87.6	87.7	88.0
≥ 1000	16.1	63.6	69.9	74.8	82.1	83.6	88.1	89.7	90.5	90.9	90.9	91.0	91.1	91.4
≥ 900	16.1	63.7	70.1	74.9	82.3	83.8	88.3	89.9	90.7	91.1	91.1	91.2	91.3	91.6
≥ 800	16.1	63.8	70.3	75.2	82.7	84.3	88.8	90.4	91.2	91.7	91.7	91.8	91.9	92.2
≥ 700	16.1	63.9	70.6	75.6	83.2	84.8	89.4	91.2	92.0	92.5	92.5	92.6	92.7	93.0
≥ 600	16.1	63.9	70.6	75.7	83.3	84.9	89.6	91.4	92.2	92.9	92.9	93.0	93.1	93.4
≥ 500	16.1	63.9	70.6	75.7	83.6	85.2	90.3	92.2	93.1	94.2	94.3	94.4	94.5	94.9
≥ 400	16.1	64.0	70.7	75.8	83.8	85.4	90.5	92.3	93.2	94.4	94.4	94.6	94.7	95.1
≥ 300	16.1	64.0	70.7	75.8	83.8	85.4	90.6	92.6	93.5	95.0	95.2	95.5	95.6	96.1
≥ 200	16.1	64.0	70.7	75.8	83.8	85.4	90.6	92.7	93.6	95.3	95.7	96.1	96.1	96.5
≥ 100	16.1	64.0	70.7	75.8	83.8	85.4	90.6	92.7	93.6	95.6	96.0	96.5	96.5	97.2
0	16.1	64.0	70.7	75.8	83.8	85.4	90.6	92.7	93.6	95.7	96.1	96.5	96.6	97.4

1240

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114

STATION

SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

NOV

MONTH

01

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	8.0	56.7	60.7	62.0	65.3	66.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 20000	8.0	58.7	62.7	64.0	67.3	68.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 18000	8.0	58.7	62.7	64.0	67.3	68.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 16000	8.0	58.7	62.7	64.0	67.3	68.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 14000	8.0	58.7	62.7	64.0	67.3	68.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 12000	8.0	59.3	63.3	64.7	68.0	69.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 10000	8.0	60.0	64.0	65.3	68.7	70.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 9000	8.0	60.0	64.0	65.3	68.7	70.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 8000	8.0	60.0	64.0	65.3	68.7	70.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 7000	8.0	60.0	64.0	65.3	68.7	70.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 6000	8.0	60.0	64.0	65.3	68.7	70.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 5000	8.0	60.0	64.0	65.3	68.7	70.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 4500	8.0	60.0	64.0	65.3	68.7	70.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 4000	8.0	60.7	64.7	66.0	69.3	70.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 3500	8.0	61.3	65.3	66.7	70.0	71.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 3000	8.7	62.0	66.0	67.3	70.7	72.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 2500	8.7	62.7	66.7	68.0	71.3	72.7	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 2000	9.3	66.7	70.7	72.0	76.0	77.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
1800	10.0	67.3	71.3	72.7	76.7	78.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
1500	10.0	68.7	73.3	76.0	80.7	82.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
1200	10.0	70.0	74.7	78.0	82.7	84.0	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
1000	10.0	70.7	76.0	79.3	84.0	86.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
900	10.0	71.3	76.7	80.0	84.7	86.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
800	10.0	71.3	76.7	80.0	84.7	86.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
700	10.0	71.3	76.7	80.0	84.7	86.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
600	10.0	71.3	76.7	80.0	84.7	86.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
500	10.0	71.3	76.7	80.0	85.3	87.3	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
400	10.0	71.3	76.7	80.0	85.3	87.3	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
300	10.0	71.3	76.7	80.0	85.3	87.3	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
200	10.0	71.3	76.7	80.0	85.3	87.3	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
100	10.0	71.3	76.7	80.0	85.3	87.3	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
0	10.0	71.3	76.7	80.0	85.3	87.3	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATIONSANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

NOV
MONTH

04

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													≥ 0
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	9.3	56.7	59.3	60.7	63.3	64.0	64.7	64.7	64.7	66.0	66.0	66.0	66.0	66.0
≥ 20000	10.0	58.0	60.7	62.0	64.7	65.3	66.0	66.0	66.0	67.3	67.3	67.3	67.3	67.3
≥ 18000	10.0	58.0	60.7	62.0	64.7	65.3	66.0	66.0	66.0	67.3	67.3	67.3	67.3	67.3
≥ 16000	10.0	58.0	60.7	62.0	64.7	65.3	66.0	66.0	66.0	67.3	67.3	67.3	67.3	67.3
≥ 14000	10.0	58.0	60.7	62.0	64.7	65.3	66.0	66.0	66.0	67.3	67.3	67.3	67.3	67.3
≥ 12000	10.0	58.0	60.7	62.0	64.7	65.3	66.0	66.0	66.0	67.3	67.3	67.3	67.3	67.3
≥ 10000	10.0	58.0	60.7	62.0	64.7	65.3	66.0	66.0	66.0	67.3	67.3	67.3	67.3	67.3
≥ 9000	10.0	58.0	60.7	62.0	64.7	65.3	66.0	66.0	66.0	67.3	67.3	67.3	67.3	67.3
≥ 8000	10.0	58.0	60.7	62.0	64.7	65.3	66.0	66.0	66.0	67.3	67.3	67.3	67.3	67.3
≥ 7000	10.0	58.0	60.7	62.0	64.7	65.3	66.0	66.0	66.0	67.3	67.3	67.3	67.3	67.3
≥ 6000	10.0	58.0	60.7	62.0	64.7	65.3	66.0	66.0	66.0	67.3	67.3	67.3	67.3	67.3
≥ 5000	10.0	58.0	60.7	62.0	64.7	65.3	66.0	66.0	66.0	67.3	67.3	67.3	67.3	67.3
≥ 4500	10.0	58.0	60.7	62.0	64.7	65.3	66.0	66.0	66.0	67.3	67.3	67.3	67.3	67.3
≥ 4000	10.0	58.7	61.3	62.7	65.3	66.0	66.7	66.7	66.7	68.0	68.0	68.0	68.0	68.0
≥ 3500	10.0	58.7	61.3	62.7	66.0	66.7	67.3	67.3	67.3	68.7	68.7	68.7	68.7	68.7
≥ 3000	10.0	60.7	63.3	64.7	68.0	68.7	69.3	69.3	69.3	70.7	70.7	70.7	70.7	70.7
≥ 2500	10.0	62.7	65.3	66.7	70.7	71.3	72.0	72.0	72.0	73.3	73.3	73.3	73.3	73.3
≥ 2000	10.0	66.7	70.0	71.3	76.0	76.7	77.3	77.3	77.3	78.7	78.7	78.7	78.7	78.7
≥ 1800	10.0	66.7	70.7	72.0	76.7	77.3	78.0	78.0	78.0	79.3	79.3	79.3	79.3	79.3
≥ 1500	10.0	68.0	72.7	75.3	80.0	80.7	81.3	81.3	81.3	82.7	82.7	82.7	82.7	82.7
≥ 1200	10.0	69.3	74.0	76.7	81.3	82.0	82.7	82.7	82.7	84.0	84.0	84.0	84.0	84.0
≥ 1000	10.0	70.0	74.7	77.3	82.0	82.7	84.0	84.0	84.0	85.3	85.3	85.3	85.3	85.3
≥ 900	10.0	70.7	75.3	78.0	82.7	83.3	84.7	84.7	84.7	86.0	86.0	86.0	86.0	86.0
≥ 800	10.0	70.7	75.3	78.0	84.0	84.7	86.0	86.7	86.7	88.0	88.0	88.0	88.0	88.0
≥ 700	10.0	70.7	75.3	78.0	84.7	85.3	86.7	87.3	87.3	88.7	88.7	88.7	88.7	88.7
≥ 600	10.0	70.7	75.3	78.0	84.7	85.3	87.3	88.0	88.0	89.3	89.3	89.3	89.3	89.3
≥ 500	10.0	70.7	76.0	78.7	85.3	86.0	88.0	88.7	89.3	90.7	90.7	90.7	90.7	90.7
≥ 400	10.0	70.7	76.0	78.7	85.3	86.0	88.0	88.7	89.3	90.7	90.7	90.7	90.7	90.7
≥ 300	10.0	70.7	76.0	78.7	86.0	86.7	90.0	90.7	91.3	93.3	93.3	93.3	93.3	93.3
≥ 200	10.0	70.7	76.0	78.7	86.0	86.7	90.0	90.7	91.3	93.3	93.3	93.3	93.3	93.3
≥ 100	10.0	70.7	76.0	78.7	86.0	86.7	90.0	90.7	91.3	93.3	93.3	93.3	93.3	93.3
0	10.0	70.7	76.0	78.7	86.0	86.7	90.0	90.7	91.3	93.3	93.3	93.3	93.3	93.3

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	20.0	50.0	52.7	54.7	56.7	58.0	58.7	58.7	59.3	59.3	59.3	59.3	60.0	60.7
≥ 20000	21.3	56.0	58.7	60.7	62.7	64.0	65.3	65.3	66.0	66.0	66.7	66.7	67.3	68.0
≥ 18000	21.3	56.7	59.3	61.3	63.3	64.7	66.0	66.0	66.7	66.7	67.3	67.3	68.0	68.7
≥ 16000	21.3	57.3	60.0	62.0	64.0	65.3	66.7	66.7	67.3	67.3	68.0	68.0	68.7	69.3
≥ 14000	22.7	58.7	61.3	63.3	65.3	66.7	68.0	68.0	68.7	68.7	69.3	69.3	70.0	70.7
≥ 12000	22.7	59.3	62.0	64.0	66.0	67.3	68.7	68.7	69.3	69.3	70.0	70.0	70.7	71.3
≥ 10000	22.7	60.0	62.7	64.7	66.7	68.0	69.3	69.3	70.0	70.0	70.7	70.7	71.3	72.0
≥ 9000	22.7	60.0	62.7	64.7	66.7	68.0	69.3	69.3	70.0	70.0	70.7	70.7	71.3	72.0
≥ 8000	22.7	60.7	63.3	65.3	67.3	68.7	70.0	70.0	70.7	70.7	71.3	71.3	72.0	72.7
≥ 7000	22.7	60.7	63.3	65.3	67.3	68.7	70.0	70.0	70.7	70.7	71.3	71.3	72.0	72.7
≥ 6000	22.7	60.7	63.3	65.3	67.3	68.7	70.0	70.0	70.7	70.7	71.3	71.3	72.0	72.7
≥ 5000	22.7	60.7	63.3	65.3	67.3	68.7	70.0	70.0	70.7	70.7	71.3	71.3	72.0	72.7
≥ 4500	22.7	60.7	63.3	65.3	67.3	68.7	70.0	70.0	70.7	70.7	71.3	71.3	72.0	72.7
≥ 4000	22.7	60.7	63.3	65.3	67.3	68.7	70.0	70.0	70.7	70.7	71.3	71.3	72.0	72.7
≥ 3500	22.7	60.7	63.3	65.3	67.3	68.7	70.0	70.0	70.7	70.7	71.3	71.3	72.0	72.7
≥ 3000	23.3	63.3	66.0	68.0	70.0	71.3	72.7	73.3	73.3	73.3	74.0	74.0	74.7	75.3
≥ 2500	24.0	66.0	68.7	70.7	72.7	74.0	75.3	76.0	76.0	76.0	76.7	76.7	77.3	78.0
≥ 2000	24.0	69.3	72.0	74.0	76.0	77.3	78.0	79.3	80.0	80.0	80.7	80.7	81.3	82.0
≥ 1800	24.0	69.3	72.0	74.0	76.0	77.3	78.0	79.3	80.0	80.0	80.7	80.7	81.3	82.0
≥ 1500	24.0	70.7	73.3	75.3	78.0	79.3	81.3	82.0	82.0	82.0	82.7	82.7	83.3	84.0
≥ 1200	24.0	70.7	73.3	75.3	78.0	80.0	82.0	82.0	82.7	82.7	83.3	83.3	84.0	84.7
≥ 1000	24.0	70.7	73.3	75.3	80.0	81.3	84.0	84.0	84.7	84.7	85.3	85.3	86.0	86.7
≥ 900	24.0	70.7	73.3	75.3	80.0	81.3	84.0	84.0	84.7	84.7	85.3	85.3	86.0	86.7
≥ 800	24.0	71.3	74.0	76.0	80.7	82.0	85.3	85.3	86.7	86.7	87.3	87.3	88.0	88.7
≥ 700	24.0	71.3	74.0	76.0	80.7	82.0	85.3	85.3	86.7	86.7	87.3	87.3	88.0	88.7
≥ 600	24.0	71.3	74.0	76.0	80.7	82.0	85.3	85.3	86.7	86.7	87.3	87.3	88.0	88.7
≥ 500	24.0	71.3	74.0	76.0	80.7	82.0	85.3	85.3	86.7	86.7	87.3	87.3	88.0	88.7
≥ 400	24.0	71.3	74.0	76.0	80.7	82.0	85.3	85.3	86.7	86.7	87.3	87.3	88.0	88.7
≥ 300	24.0	71.3	74.0	76.0	80.7	82.0	85.3	85.3	86.7	86.7	87.3	87.3	88.0	88.7
≥ 200	24.0	71.3	74.0	76.0	80.7	82.0	85.3	85.3	86.7	86.7	87.3	87.3	88.0	88.7
≥ 100	24.0	71.3	74.0	76.0	80.7	82.0	85.3	85.3	86.7	86.7	87.3	87.3	88.0	88.7
≥ 0	24.0	71.3	74.0	76.0	80.7	82.0	85.3	85.3	86.7	86.7	87.3	87.3	88.0	88.7

150

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	22.0	49.3	52.0	54.7	57.3	58.0	60.7	61.3	62.0	64.0	64.0	64.0	64.7	65.3	65.3
≥ 20000	23.3	54.0	57.3	60.7	63.3	64.0	66.7	67.3	68.0	70.0	70.0	70.0	70.7	71.3	71.3
≥ 18000	23.3	54.7	58.0	61.3	64.0	64.7	67.3	68.0	68.7	70.7	70.7	70.7	71.3	72.0	72.0
≥ 16000	23.3	54.7	58.0	61.3	64.0	64.7	67.3	68.0	68.7	70.7	70.7	70.7	71.3	72.0	72.0
≥ 14000	24.0	56.0	59.3	62.7	65.3	66.0	68.7	69.3	70.0	72.0	72.0	72.0	72.7	73.3	73.3
≥ 12000	24.7	57.3	60.7	64.0	66.7	67.3	70.0	70.7	71.3	73.3	73.3	73.3	74.0	74.7	74.7
≥ 10000	24.7	58.0	61.3	64.7	68.0	68.7	71.3	72.0	72.7	74.7	74.7	74.7	75.3	76.0	76.0
≥ 9000	24.7	58.0	61.3	64.7	68.0	68.7	71.3	72.0	72.7	74.7	74.7	74.7	75.3	76.0	76.0
≥ 8000	25.0	59.3	62.7	66.0	69.3	70.0	72.7	73.3	74.0	76.0	76.0	76.0	76.7	77.3	77.3
≥ 7000	25.0	59.3	62.7	66.0	69.3	70.0	72.7	73.3	74.0	76.0	76.0	76.0	76.7	77.3	77.3
≥ 6000	26.0	59.3	62.7	66.0	69.3	70.0	72.7	73.3	74.0	76.0	76.0	76.0	76.7	77.3	77.3
≥ 5000	26.0	59.3	62.7	66.0	69.3	70.0	72.7	73.3	74.0	76.0	76.0	76.0	76.7	77.3	77.3
≥ 4500	26.0	60.7	64.0	67.3	70.7	71.3	74.0	74.7	75.3	77.3	77.3	77.3	78.0	78.7	78.7
≥ 4000	26.0	61.3	64.7	68.0	71.3	72.0	74.7	75.3	76.0	78.0	78.0	78.0	78.7	79.3	79.3
≥ 3500	26.0	62.0	65.3	68.7	72.0	72.7	75.3	76.0	76.7	78.7	78.7	78.7	79.3	80.0	80.0
≥ 3000	26.7	64.7	68.0	71.3	74.7	75.3	78.7	79.3	80.0	82.0	82.0	82.0	82.7	83.3	83.3
≥ 2500	27.3	65.3	68.7	72.0	75.3	76.0	79.3	80.0	80.7	82.7	82.7	82.7	83.3	84.0	84.0
≥ 2000	28.0	68.0	71.3	74.7	78.0	78.7	82.0	82.7	83.3	85.3	85.3	85.3	86.0	86.7	86.7
≥ 1800	28.0	68.0	71.3	74.7	78.0	78.7	82.0	82.7	83.3	85.3	85.3	85.3	86.0	86.7	86.7
≥ 1500	28.0	69.3	74.7	78.7	82.0	83.3	86.7	87.3	88.0	90.0	90.0	90.0	90.7	91.3	91.3
≥ 1200	28.0	69.3	74.7	78.7	82.0	83.3	87.3	88.0	88.7	90.7	90.7	90.7	91.3	92.0	92.0
≥ 1000	28.0	69.3	74.7	78.7	82.0	84.0	88.7	90.0	90.7	92.7	92.7	92.7	93.3	94.0	94.7
≥ 900	28.0	69.3	74.7	78.7	82.0	84.0	88.7	90.0	90.7	92.7	92.7	92.7	93.3	94.0	94.7
≥ 800	28.0	69.3	74.7	78.7	82.0	84.0	88.7	90.0	90.7	92.0	92.0	92.0	93.3	94.0	94.7
≥ 700	28.0	69.3	74.7	78.7	82.0	84.0	88.7	90.0	90.7	92.0	92.0	92.0	93.3	94.0	94.7
≥ 600	28.0	69.3	74.7	78.7	82.0	84.0	88.7	90.0	90.7	92.0	92.0	92.0	93.3	94.0	94.7
≥ 500	28.0	69.3	74.7	78.7	82.0	84.0	88.7	90.0	90.7	92.0	92.0	92.0	93.3	94.0	94.7
≥ 400	28.0	69.3	74.7	78.7	82.0	84.0	88.7	90.0	90.7	92.0	92.0	92.0	93.3	94.0	94.7
≥ 300	28.0	69.3	74.7	78.7	82.0	84.0	88.7	90.0	90.7	92.0	92.0	92.0	93.3	94.0	94.7
≥ 200	28.0	69.3	74.7	78.7	82.0	84.0	88.7	90.0	90.7	92.0	92.0	92.0	93.3	94.0	94.7
≥ 100	28.0	69.3	74.7	78.7	82.0	84.0	88.7	90.0	90.7	92.0	92.0	92.0	93.3	94.0	94.7
≥ 0	28.0	69.3	74.7	78.7	82.0	84.0	88.7	90.0	90.7	92.0	92.0	92.0	93.3	94.0	94.7

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	22.7	55.3	57.3	61.3	66.7	68.0	70.7	72.7	73.3	73.3	74.7	74.7	75.3	76.0
≥ 20000	23.3	60.7	62.7	66.7	72.7	74.0	77.3	79.3	80.0	80.0	81.3	81.3	82.0	82.7
≥ 18000	23.3	60.7	62.7	66.7	72.7	74.0	77.3	79.3	80.0	80.0	81.3	81.3	82.0	82.7
≥ 16000	23.3	60.7	62.7	66.7	72.7	74.0	77.3	79.3	80.0	80.0	81.3	81.3	82.0	82.7
≥ 14000	24.0	62.0	64.7	68.7	74.7	76.0	79.3	81.3	82.0	82.0	83.3	83.3	84.0	84.7
≥ 12000	25.3	63.3	66.0	70.0	76.0	77.3	80.7	82.7	83.3	83.3	84.7	84.7	85.3	86.0
≥ 10000	25.3	63.3	66.0	70.0	76.0	77.3	80.7	82.7	83.3	83.3	84.7	84.7	85.3	86.0
≥ 9000	25.3	63.3	66.0	70.0	76.0	77.3	80.7	82.7	83.3	83.3	84.7	84.7	85.3	86.0
≥ 8000	26.0	64.0	66.7	70.7	76.7	78.0	81.3	83.3	84.0	84.0	85.3	85.3	86.0	86.7
≥ 7000	26.0	64.0	66.7	70.7	76.7	78.0	81.3	83.3	84.0	84.0	85.3	85.3	86.0	86.7
≥ 6000	26.0	64.7	67.3	71.3	77.3	78.7	82.0	84.0	84.7	84.7	86.0	86.0	86.7	87.3
≥ 5000	26.0	64.7	67.3	71.3	77.3	78.7	82.0	84.0	84.7	84.7	86.0	86.0	86.7	87.3
≥ 4500	27.3	66.0	68.7	72.7	78.7	80.0	83.3	85.3	86.0	86.0	87.3	87.3	88.0	88.7
≥ 4000	28.0	67.3	70.0	74.0	80.0	81.3	84.7	86.7	87.3	87.3	88.7	88.7	89.3	90.0
≥ 3500	28.0	67.3	70.0	74.0	80.0	81.3	84.7	86.7	87.3	87.3	88.7	88.7	89.3	90.0
≥ 3000	28.0	69.3	72.0	76.0	82.0	84.0	87.3	89.3	90.0	90.0	91.3	91.3	92.0	92.7
≥ 2500	28.7	70.0	72.7	76.7	82.7	84.7	88.0	90.0	90.7	90.7	92.0	92.0	92.7	93.3
≥ 2000	28.7	72.7	75.3	79.3	85.3	87.3	90.7	92.7	93.3	93.3	94.7	94.7	95.3	96.0
≥ 1800	28.7	73.3	76.0	80.0	86.0	88.0	91.3	93.3	94.0	94.0	95.3	95.3	96.0	96.7
≥ 1500	28.7	73.3	76.0	80.0	86.0	88.0	91.3	93.3	94.0	94.0	95.3	95.3	96.0	96.7
≥ 1200	28.7	73.3	76.0	80.0	86.0	88.0	91.3	93.3	94.0	94.0	95.3	95.3	96.0	96.7
≥ 1000	28.7	73.3	76.0	80.0	86.0	88.0	91.3	93.3	94.0	94.0	95.3	95.3	96.0	96.7
≥ 900	28.7	73.3	76.0	80.0	86.0	88.0	91.3	93.3	94.0	94.0	95.3	95.3	96.0	96.7
≥ 800	28.7	73.3	76.0	80.0	86.0	88.0	91.3	93.3	94.0	94.0	95.3	95.3	96.0	96.7
≥ 700	28.7	73.3	76.0	80.0	86.0	88.0	91.3	93.3	94.0	94.0	95.3	95.3	96.0	96.7
≥ 600	28.7	73.3	76.0	80.0	86.0	88.0	91.3	93.3	94.0	94.0	95.3	95.3	96.0	96.7
≥ 500	28.7	73.3	76.0	80.0	86.0	88.0	91.3	93.3	94.0	94.0	95.3	95.3	96.0	96.7
≥ 400	28.7	73.3	76.0	80.0	86.0	88.0	91.3	93.3	94.0	94.0	95.3	95.3	96.0	96.7
≥ 300	28.7	73.3	76.0	80.0	86.0	88.0	91.3	93.3	94.0	94.0	95.3	95.3	96.0	96.7
≥ 200	28.7	73.3	76.0	80.0	86.0	88.0	91.3	93.3	94.0	94.0	95.3	95.3	96.0	96.7
≥ 100	28.7	73.3	76.0	80.0	86.0	88.0	91.3	93.3	94.0	94.0	95.3	95.3	96.0	96.7
≥ 0	28.7	73.3	76.0	80.0	86.0	88.0	91.3	93.3	94.0	94.0	95.3	95.3	96.0	96.7

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	24.0	56.0	61.3	68.0	72.7	74.7	76.0	76.7	77.3	77.3	77.3
≥ 20000	26.0	64.0	69.3	76.0	81.3	84.0	85.3	86.0	86.7	87.3	87.3
AI 18000	26.0	64.0	69.3	76.0	81.3	84.0	85.3	86.0	86.7	87.3	87.3
AI 16000	26.0	64.0	69.3	76.0	81.3	84.0	85.3	86.0	86.7	87.3	87.3
AI 14000	26.7	66.0	71.3	78.0	83.3	86.0	87.3	88.0	88.7	89.3	89.3
AI 12000	26.7	66.0	71.3	78.0	83.3	86.0	87.3	88.0	88.7	89.3	89.3
AI 10000	27.3	66.7	72.0	78.7	84.0	86.7	88.7	89.3	90.0	90.7	90.7
AI 9000	27.3	66.7	72.0	78.7	84.0	86.7	88.7	89.3	90.0	90.7	90.7
AI 8000	27.3	66.7	72.0	78.7	84.0	86.7	88.7	89.3	90.0	90.7	90.7
AI 7000	27.3	66.7	72.0	78.7	84.0	86.7	88.7	89.3	90.0	90.7	90.7
AI 6000	27.3	66.7	72.0	78.7	84.0	86.7	88.7	89.3	90.0	90.7	90.7
AI 5000	28.0	68.0	73.3	80.0	85.3	88.0	90.0	90.7	91.3	92.0	92.0
AI 4500	28.0	68.0	73.3	80.0	85.3	88.0	90.0	90.7	91.3	92.0	92.0
AI 4000	28.0	68.7	74.0	80.7	86.0	88.7	90.7	91.3	92.0	92.7	92.7
AI 3500	28.0	69.3	74.7	81.3	86.7	89.3	91.3	92.0	92.7	93.3	93.3
AI 3000	28.0	69.3	74.7	81.3	86.7	90.0	92.0	92.7	93.3	94.0	94.0
AI 2500	28.7	71.3	77.3	84.0	89.3	92.7	94.7	95.3	96.0	96.7	96.7
AI 2000	28.7	73.3	79.3	86.0	91.3	94.7	96.7	97.3	98.0	98.7	98.7
AI 1800	28.7	73.3	79.3	86.0	91.3	94.7	96.7	97.3	98.0	98.7	98.7
AI 1500	28.7	73.3	79.3	86.0	91.3	94.7	96.7	97.3	98.0	98.7	98.7
AI 1200	28.7	74.0	80.0	86.7	92.0	95.3	97.3	98.0	98.7	99.3	99.3
AI 1000	28.7	74.7	80.7	87.3	92.7	96.0	98.0	98.7	99.3	100.0	100.0
AI 900	28.7	74.7	80.7	87.3	92.7	96.0	98.0	98.7	99.3	100.0	100.0
AI 800	28.7	74.7	80.7	87.3	92.7	96.0	98.0	98.7	99.3	100.0	100.0
AI 700	28.7	74.7	80.7	87.3	92.7	96.0	98.0	98.7	99.3	100.0	100.0
AI 600	28.7	74.7	80.7	87.3	92.7	96.0	98.0	98.7	99.3	100.0	100.0
AI 500	28.7	74.7	80.7	87.3	92.7	96.0	98.0	98.7	99.3	100.0	100.0
AI 400	28.7	74.7	80.7	87.3	92.7	96.0	98.0	98.7	99.3	100.0	100.0
AI 300	28.7	74.7	80.7	87.3	92.7	96.0	98.0	98.7	99.3	100.0	100.0
AI 200	28.7	74.7	80.7	87.3	92.7	96.0	98.0	98.7	99.3	100.0	100.0
AI 100	28.7	74.7	80.7	87.3	92.7	96.0	98.0	98.7	99.3	100.0	100.0
AI 0	28.7	74.7	80.7	87.3	92.7	96.0	98.0	98.7	99.3	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114

STATION NAME
SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

NOV

MONTH

19

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ 5/16	≥ ¼
NO CEILING	11.3	67.3	70.0	74.7	80.7	80.7	82.0	82.0	82.0	82.0	82.7	83.3
≥ 20000	12.0	71.3	74.0	78.7	84.7	84.7	86.7	86.7	86.7	86.7	87.3	88.0
≥ 18000	12.0	71.3	74.0	78.7	84.7	84.7	86.7	86.7	86.7	86.7	87.3	88.0
≥ 16000	12.0	71.3	74.0	78.7	84.7	84.7	86.7	86.7	86.7	86.7	87.3	88.0
≥ 14000	12.0	72.0	74.7	79.3	85.3	85.3	87.3	87.3	87.3	87.3	88.0	88.7
≥ 12000	12.0	72.0	74.7	79.3	85.3	85.3	87.3	87.3	87.3	87.3	88.0	88.7
≥ 10000	12.0	72.7	75.3	80.0	86.0	86.0	88.0	88.0	88.0	88.0	88.7	89.3
≥ 9000	12.0	72.7	75.3	80.0	86.0	86.0	88.0	88.0	88.0	88.0	88.7	89.3
≥ 8000	12.0	72.7	75.3	80.0	86.0	86.0	88.0	88.0	88.0	88.0	88.7	89.3
≥ 7000	12.0	72.7	75.3	80.0	86.0	86.0	88.0	88.0	88.0	88.0	88.7	89.3
≥ 6000	12.0	72.7	75.3	80.0	86.0	86.0	88.0	88.0	88.0	88.0	88.7	89.3
≥ 5000	12.0	72.7	75.3	80.0	86.0	86.0	88.0	88.0	88.0	88.0	88.7	89.3
≥ 4500	12.0	72.7	75.3	80.0	86.0	86.0	88.0	88.0	88.0	88.0	88.7	89.3
≥ 4000	12.0	74.0	76.7	81.3	87.3	87.3	89.3	89.3	89.3	89.3	90.0	90.7
≥ 3500	12.7	76.0	78.7	83.3	89.3	89.3	91.3	91.3	91.3	91.3	92.0	92.7
≥ 3000	12.7	76.0	78.7	83.3	90.0	90.0	92.0	92.0	92.0	92.0	92.7	93.3
≥ 2500	12.7	77.3	80.0	84.7	91.3	91.3	93.3	93.3	93.3	93.3	94.0	94.7
≥ 2000	12.7	78.7	81.3	86.0	93.3	93.3	95.3	95.3	95.3	95.3	96.0	96.7
≥ 1800	12.7	79.3	82.0	86.7	94.0	94.0	96.0	96.0	96.0	96.0	96.7	97.3
≥ 1500	12.7	80.0	82.7	87.3	94.7	94.7	96.7	96.7	96.7	96.7	97.3	98.0
≥ 1200	12.7	80.0	82.7	87.3	94.7	94.7	96.7	96.7	96.7	96.7	97.3	98.0
≥ 1000	12.7	80.0	82.7	87.3	94.7	94.7	96.7	96.7	96.7	96.7	97.3	98.0
≥ 900	12.7	80.0	82.7	87.3	94.7	94.7	96.7	96.7	96.7	96.7	97.3	98.0
≥ 800	12.7	80.0	82.7	87.3	94.7	94.7	96.7	96.7	96.7	96.7	97.3	98.0
≥ 700	12.7	80.0	82.7	87.3	95.3	95.3	96.0	96.0	96.0	96.0	96.7	97.3
≥ 600	12.7	80.0	82.7	87.3	95.3	95.3	96.0	96.0	96.0	96.0	96.7	97.3
≥ 500	12.7	80.0	82.7	87.3	95.3	95.3	96.0	96.0	96.0	96.0	96.7	97.3
≥ 400	12.7	80.0	82.7	87.3	95.3	95.3	96.0	96.0	96.0	96.0	96.7	97.3
≥ 300	12.7	80.0	82.7	87.3	95.3	95.3	96.0	96.0	96.0	96.0	96.7	97.3
≥ 200	12.7	80.0	82.7	87.3	95.3	95.3	96.0	96.0	96.0	96.0	96.7	97.3
≥ 100	12.7	80.0	82.7	87.3	95.3	95.3	96.0	96.0	96.0	96.0	96.7	97.3
0	12.7	80.0	82.7	87.3	95.3	95.3	96.0	96.0	96.0	96.0	96.7	97.3

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATIONSANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

NOV
MONTH

22

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	10.0	62.0	64.7	69.3	75.3	76.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 20000	10.7	64.7	67.3	72.0	78.0	78.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 18000	10.7	64.7	67.3	72.0	78.0	78.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 16000	10.7	64.7	67.3	72.0	78.0	78.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 14000	10.7	65.3	68.0	72.7	78.7	79.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 12000	10.7	65.3	68.0	72.7	78.7	79.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 10000	10.7	65.3	68.0	72.7	78.7	79.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 9000	10.7	65.3	68.0	72.7	78.7	79.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 8000	10.7	66.0	68.7	73.3	79.3	80.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 7000	10.7	66.0	68.7	73.3	79.3	80.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 6000	10.7	66.0	68.7	73.3	79.3	80.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 5000	10.7	66.0	68.7	73.3	79.3	80.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 4500	10.7	66.0	68.7	73.3	79.3	80.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 4000	10.7	66.0	68.7	73.3	79.3	80.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 3500	10.7	66.7	69.3	74.0	80.0	80.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 3000	11.3	67.3	70.0	74.7	80.7	81.3	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 2500	11.3	68.0	70.7	75.3	81.3	82.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 2000	11.3	70.0	72.7	77.3	84.7	85.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1800	11.3	70.0	72.7	77.3	84.7	85.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1500	11.3	72.0	74.7	79.3	88.0	88.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1200	11.3	72.0	74.7	80.0	88.7	89.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1000	11.3	72.0	75.3	80.7	89.3	90.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 900	11.3	72.0	75.3	80.7	89.3	90.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 800	11.3	72.7	76.0	81.3	90.0	90.7	95.3	95.3	95.3	96.0	96.0	96.0	96.0	96.0
≥ 700	11.3	72.7	76.0	81.3	90.0	90.7	96.0	96.0	96.0	96.7	96.7	96.7	96.7	96.7
≥ 600	11.3	72.7	76.7	82.0	90.7	91.3	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3
≥ 500	11.3	72.7	76.7	82.0	90.7	91.3	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3
≥ 400	11.3	72.7	76.7	82.0	90.7	91.3	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3
≥ 300	11.3	72.7	76.7	82.0	90.7	91.3	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3
≥ 200	11.3	72.7	76.7	82.0	90.7	91.3	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3
≥ 100	11.3	72.7	76.7	82.0	90.7	91.3	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3
≥ 0	11.3	72.7	76.7	82.0	90.7	91.3	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET

SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION

SANTA ANA, CALIFORNIA

73-77

TEARS

NOV

MOUTH
ALL
HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	15.9	56.7	59.8	63.2	67.3	68.3	70.1	70.5	70.8	71.3	71.4	71.4	72.3
≥ 20000	16.8	60.9	64.1	67.6	71.8	72.9	75.0	75.4	75.8	76.3	76.5	76.8	77.4
≥ 18000	16.8	61.1	64.3	67.8	72.0	73.1	75.2	75.6	75.9	76.4	76.7	76.9	77.6
≥ 16000	16.8	61.2	64.3	67.8	72.1	73.2	75.3	75.7	76.0	76.5	76.8	77.0	77.7
≥ 14000	17.3	62.1	65.3	68.8	73.1	74.2	76.3	76.7	77.0	77.5	77.8	78.0	78.7
≥ 12000	17.5	62.6	65.8	69.3	73.6	74.7	76.8	77.2	77.5	78.0	78.3	78.5	79.2
≥ 10000	17.6	63.0	66.3	69.8	74.1	75.2	77.3	77.8	78.1	78.6	78.8	79.1	79.8
≥ 9000	17.6	63.0	66.3	69.8	74.1	75.2	77.3	77.8	78.1	78.6	78.8	79.1	79.8
≥ 8000	17.8	63.4	66.7	70.2	74.5	75.6	77.8	78.2	78.5	79.0	79.3	79.5	80.2
≥ 7000	17.8	63.4	66.7	70.2	74.5	75.6	77.8	78.2	78.5	79.0	79.3	79.5	80.2
≥ 6000	17.8	63.5	66.8	70.3	74.6	75.7	77.8	78.3	78.6	79.1	79.3	79.6	80.3
≥ 5000	17.9	63.8	67.0	70.5	74.8	75.9	78.1	78.5	78.8	79.3	79.6	79.8	80.5
≥ 4500	18.1	64.0	67.3	70.8	75.1	76.2	78.3	78.6	79.1	79.6	79.8	80.1	80.8
≥ 4000	18.2	64.7	67.9	71.4	75.8	76.8	78.9	79.4	79.8	80.3	80.5	80.8	81.4
≥ 3500	18.3	65.3	68.5	72.0	76.4	77.5	79.7	80.1	80.4	80.9	81.2	81.4	82.1
≥ 3000	18.6	66.6	69.8	73.3	77.8	79.1	81.5	81.9	82.3	82.8	83.0	83.3	83.9
≥ 2500	18.9	67.9	71.3	74.8	79.3	80.6	83.0	83.4	83.8	84.3	84.5	84.8	85.4
≥ 2000	19.1	70.7	74.1	77.6	82.6	83.8	86.3	86.8	87.1	87.6	87.8	88.1	88.8
≥ 1800	19.2	70.9	74.5	78.0	83.1	84.3	86.8	87.3	87.6	88.1	88.3	88.6	89.3
≥ 1500	19.2	71.9	75.8	79.8	85.1	86.3	89.1	89.6	89.9	90.4	90.7	90.9	91.6
≥ 1200	19.2	72.3	76.3	80.3	85.8	87.2	89.8	90.4	90.8	91.3	91.5	91.8	92.4
≥ 1000	19.2	72.6	76.7	80.8	86.3	87.9	90.9	91.6	91.9	92.5	92.8	93.1	93.8
≥ 900	19.2	72.8	76.8	80.9	86.5	88.1	91.1	91.8	92.1	92.7	93.0	93.3	93.9
≥ 800	19.2	72.9	77.0	81.1	86.8	88.5	91.8	92.6	93.1	93.8	94.1	94.3	95.0
≥ 700	19.2	72.9	77.0	81.1	87.0	88.7	92.1	92.9	93.4	94.1	94.5	94.9	95.4
≥ 600	19.2	72.9	77.1	81.2	87.1	88.8	92.4	93.3	93.8	94.4	94.9	95.2	95.8
≥ 500	19.2	72.9	77.2	81.3	87.3	88.9	92.6	93.6	94.2	94.8	95.3	95.6	96.3
≥ 400	19.2	72.9	77.2	81.3	87.3	88.9	92.6	93.6	94.2	94.8	95.3	95.6	96.3
≥ 300	19.2	72.9	77.2	81.3	87.3	89.0	92.8	93.8	94.4	95.3	95.9	96.3	97.3
≥ 200	19.2	72.9	77.2	81.3	87.3	89.0	92.8	93.8	94.4	95.3	95.9	96.4	97.8
≥ 100	19.2	72.9	77.2	81.3	87.3	89.0	92.8	93.8	94.4	95.3	95.9	96.4	97.8
0	19.2	72.9	77.2	81.3	87.3	89.0	92.8	93.8	94.4	95.3	95.9	96.4	97.8

TOTAL NUMBER OF OBSERVATIONS 1200

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	5.2	52.3	56.1	60.0	63.2	63.2	69.0	70.3	70.3	71.0	71.6	71.6	71.6
≥ 20000	5.2	52.3	56.8	60.7	63.9	63.9	69.7	71.0	71.0	71.6	72.3	72.3	72.3
≥ 18000	5.2	52.3	56.8	60.7	63.9	63.9	69.7	71.0	71.0	71.6	72.3	72.3	72.3
≥ 16000	5.2	52.3	56.8	60.7	63.9	63.9	69.7	71.0	71.0	71.6	72.3	72.3	72.3
≥ 14000	5.2	53.6	58.1	61.9	65.2	65.2	71.0	72.3	72.3	72.9	73.6	73.6	74.2
≥ 12000	5.2	55.5	60.0	63.9	67.1	67.1	72.9	74.2	74.2	74.8	75.5	75.5	76.1
≥ 10000	5.2	55.5	60.0	63.9	67.1	67.1	72.9	74.2	74.2	74.8	75.5	75.5	76.1
≥ 9000	5.2	55.5	60.0	63.9	67.1	67.1	72.9	74.2	74.2	74.8	75.5	75.5	76.1
8000	5.2	55.5	60.0	63.9	67.1	67.1	72.9	74.2	74.2	74.8	75.5	75.5	76.1
7000	5.2	55.5	60.0	63.9	67.1	67.1	72.9	74.2	74.2	74.8	75.5	75.5	76.1
6000	5.2	55.5	60.0	63.9	67.1	67.1	72.9	74.2	74.2	74.8	75.5	75.5	76.1
5000	5.2	55.5	60.0	63.9	67.1	67.1	72.9	74.2	74.2	74.8	75.5	75.5	76.1
4500	5.2	55.5	60.0	63.9	67.1	67.1	72.9	74.2	74.2	74.8	75.5	75.5	76.1
4000	5.2	56.8	61.3	65.2	69.0	69.0	74.8	76.1	76.1	76.8	77.4	77.4	78.1
3500	5.2	57.4	61.9	65.5	69.7	69.7	75.5	76.8	76.8	77.4	78.1	78.1	78.7
3000	5.2	58.7	63.2	67.1	71.0	71.0	76.8	78.1	78.1	78.7	79.4	79.4	80.0
2500	5.2	59.4	64.5	69.0	72.9	72.9	78.7	80.0	80.0	80.7	81.3	81.3	81.9
2000	5.2	61.3	66.5	71.0	74.8	74.8	80.7	81.9	81.9	82.6	83.2	83.2	83.9
1800	5.2	61.3	66.5	71.0	74.8	74.8	80.7	81.9	81.9	82.6	83.2	83.2	83.9
1500	5.2	63.9	69.0	74.2	78.7	78.7	84.5	85.8	85.8	86.5	87.1	87.1	87.7
1200	5.2	64.5	70.3	75.5	80.7	80.7	86.5	87.7	87.7	88.4	89.0	89.0	89.7
1000	5.2	65.8	71.6	77.4	82.6	82.6	88.4	89.7	89.7	90.3	91.0	91.0	91.6
900	5.2	65.8	72.3	78.1	83.2	83.2	89.0	90.3	90.3	91.0	91.6	92.3	92.9
800	5.2	66.5	72.9	78.7	83.9	83.9	89.7	91.0	91.0	92.3	92.9	92.9	93.6
700	5.2	66.5	72.9	78.7	83.9	83.9	89.7	91.0	91.0	92.3	92.9	92.9	93.6
600	5.2	66.5	72.9	78.7	83.9	83.9	89.7	91.0	91.0	92.3	92.9	92.9	93.6
500	5.2	66.5	72.9	78.7	84.5	84.5	90.3	91.6	91.6	92.9	93.6	93.6	94.2
400	5.2	66.5	72.9	78.7	84.5	84.5	90.3	91.6	91.6	92.9	93.6	93.6	94.2
300	5.2	66.5	73.6	79.4	85.2	85.2	91.0	92.3	92.3	94.2	94.8	94.8	95.5
200	5.2	66.5	73.6	79.4	85.2	85.2	91.0	92.3	92.3	94.2	94.8	94.8	95.5
100	5.2	66.5	73.6	79.4	85.2	85.2	91.0	92.3	92.3	94.2	94.8	94.8	95.5
0	5.2	66.5	73.6	79.4	85.2	85.2	91.0	92.3	92.3	94.2	94.8	94.8	95.5

TOTAL NUMBER OF OBSERVATIONS 155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													≥ 0
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	6.5	53.6	58.7	59.4	61.9	61.9	63.9	65.2	65.2	65.2	65.2	65.2	65.8	65.8
≥ 20000	6.5	54.2	59.4	60.0	62.6	62.6	64.5	65.8	65.8	65.8	65.8	65.8	66.5	66.5
≥ 18000	6.5	54.2	59.4	60.0	62.6	62.6	64.5	65.8	65.8	65.8	65.8	65.8	66.5	66.5
≥ 16000	6.5	54.2	59.4	60.0	62.6	62.6	64.5	65.8	65.8	65.8	65.8	65.8	66.5	66.5
≥ 14000	6.5	54.2	59.4	60.0	62.6	62.6	64.5	65.8	65.8	65.8	65.8	65.8	66.5	66.5
≥ 12000	6.5	56.1	61.3	61.9	64.5	64.5	66.5	67.7	67.7	67.7	67.7	67.7	68.4	68.4
≥ 10000	6.5	56.1	61.3	61.9	64.5	64.5	66.5	67.7	67.7	67.7	67.7	67.7	68.4	68.4
≥ 9000	6.5	56.1	61.3	61.9	64.5	64.5	66.5	67.7	67.7	67.7	67.7	67.7	68.4	68.4
≥ 8000	7.1	56.8	61.9	62.6	65.2	65.2	67.1	68.4	68.4	68.4	68.4	68.4	69.0	69.0
≥ 7000	7.1	56.8	61.9	62.6	65.2	65.2	67.1	68.4	68.4	68.4	68.4	68.4	69.0	69.0
≥ 6000	7.1	56.8	61.9	62.6	65.2	65.2	67.1	68.4	68.4	68.4	68.4	68.4	69.0	69.0
≥ 5000	7.1	56.8	61.9	62.6	65.2	65.2	67.1	68.4	68.4	68.4	68.4	68.4	69.0	69.0
≥ 4500	7.1	56.8	61.9	62.6	65.2	65.2	67.1	68.4	68.4	68.4	68.4	68.4	69.0	69.0
≥ 4000	7.1	57.4	62.6	63.9	66.5	66.5	68.4	69.7	69.7	69.7	69.7	69.7	70.3	70.3
≥ 3500	7.1	58.1	63.2	64.5	67.1	67.1	69.0	70.3	70.3	70.3	70.3	70.3	71.0	71.0
≥ 3000	7.1	59.4	65.2	66.5	69.0	69.0	71.0	72.3	72.3	72.3	72.3	72.3	72.9	72.9
≥ 2500	7.1	61.3	67.1	69.0	71.6	71.6	73.6	74.8	74.8	74.8	74.8	74.8	75.5	75.5
≥ 2000	7.1	61.9	68.4	70.3	72.9	72.9	74.8	76.1	76.1	76.1	76.1	76.1	76.8	76.8
≥ 1800	7.1	61.9	69.0	71.0	73.6	73.6	75.5	76.8	76.8	76.8	76.8	76.8	77.4	77.4
≥ 1600	7.1	65.8	72.9	76.1	78.7	78.7	80.7	81.9	81.9	81.9	81.9	81.9	82.6	82.6
≥ 1400	7.1	65.8	73.0	76.8	79.4	79.4	81.9	83.2	83.2	83.2	83.2	83.2	83.9	83.9
≥ 1200	7.1	67.7	75.5	78.7	81.9	81.9	83.2	84.5	84.5	84.5	84.5	84.5	85.2	85.2
≥ 1000	7.1	67.7	75.5	78.7	81.9	81.9	83.2	84.5	84.5	84.5	84.5	84.5	85.2	85.2
≥ 900	7.1	67.7	76.1	79.4	82.6	82.6	84.5	85.8	85.8	85.8	85.8	85.8	86.5	86.5
≥ 800	7.1	68.4	77.4	80.7	83.9	83.9	85.8	87.1	87.1	87.1	87.1	87.1	87.7	87.7
≥ 700	7.1	68.4	77.4	80.7	83.9	83.9	85.8	87.1	87.1	87.1	87.1	87.1	87.7	87.7
≥ 600	7.1	68.4	77.4	80.7	83.9	83.9	85.8	87.1	87.1	87.1	87.1	87.1	87.7	87.7
≥ 500	7.1	69.0	78.1	81.3	85.2	85.2	87.1	88.4	88.4	88.4	88.4	88.4	89.0	89.0
≥ 400	7.1	69.0	78.1	81.3	85.2	85.2	87.1	88.4	88.4	88.4	88.4	88.4	89.0	89.0
≥ 300	7.1	69.0	78.1	81.3	85.2	85.2	87.1	88.4	88.4	88.4	88.4	88.4	89.0	89.0
≥ 200	7.1	69.0	78.1	81.3	85.2	85.2	87.1	88.4	88.4	88.4	88.4	88.4	89.0	89.0
≥ 100	7.1	69.0	78.1	81.3	85.2	85.2	87.1	88.4	88.4	88.4	88.4	88.4	89.0	89.0
0	7.1	69.0	78.1	81.3	85.2	85.2	87.1	88.4	88.4	88.4	88.4	88.4	89.0	89.0

TOTAL NUMBER OF OBSERVATIONS 155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

DEC
MONTH

07
HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	11.0	47.7	52.3	56.1	56.8	56.8	58.1	58.7	58.7	60.0	60.0	60.0	60.0	60.0
≥ 20000	12.3	51.6	56.8	60.7	61.3	61.3	62.6	63.2	63.2	64.5	64.5	64.5	64.5	64.5
≥ 18000	12.3	51.6	56.8	60.7	61.3	61.3	62.6	63.2	63.2	64.5	64.5	64.5	64.5	64.5
≥ 16000	12.3	51.6	56.8	60.7	61.3	61.3	62.6	63.2	63.2	64.5	64.5	64.5	64.5	64.5
≥ 14000	12.3	52.3	57.4	61.3	61.9	61.9	63.2	63.9	63.9	65.2	65.2	65.2	65.2	65.2
≥ 12000	12.3	52.9	58.1	61.9	62.6	62.6	63.9	64.5	64.5	65.8	65.8	65.8	65.8	65.8
≥ 10000	12.9	54.8	60.0	63.9	65.2	65.2	66.5	67.1	67.1	68.4	68.4	68.4	68.4	68.4
≥ 9000	12.9	54.8	60.0	63.9	65.2	65.2	66.5	67.1	67.1	68.4	68.4	68.4	68.4	68.4
≥ 8000	13.6	55.5	60.7	64.5	65.8	65.8	67.1	67.7	67.7	69.0	69.0	69.0	69.0	69.0
≥ 7000	13.6	56.1	61.3	65.8	67.1	67.1	68.4	69.0	69.0	70.3	70.3	70.3	70.3	70.3
≥ 6000	13.6	56.1	61.3	65.8	67.1	67.1	68.4	69.0	69.0	70.3	70.3	70.3	70.3	70.3
≥ 5000	13.6	56.1	61.3	65.8	67.1	67.1	68.4	69.0	69.0	70.3	70.3	70.3	70.3	70.3
≥ 4500	13.6	56.1	61.3	65.8	67.1	67.1	68.4	69.0	69.0	70.3	70.3	70.3	70.3	70.3
≥ 4000	14.2	56.8	61.9	66.5	67.7	67.7	69.0	69.7	69.7	71.0	71.0	71.0	71.0	71.0
≥ 3500	14.8	58.1	63.2	67.7	69.0	69.0	70.3	71.0	71.0	72.3	72.3	72.3	72.3	72.3
≥ 3000	14.8	58.7	63.9	68.4	69.7	69.7	70.3	71.6	72.3	73.6	73.6	73.6	73.6	73.6
≥ 2500	15.5	61.9	67.1	71.6	72.9	73.6	74.8	75.5	75.5	76.8	76.8	76.8	76.8	76.8
≥ 2000	15.5	63.2	69.0	73.6	74.8	75.5	76.8	77.4	77.4	78.7	78.7	78.7	78.7	78.7
≥ 1800	15.5	64.5	70.3	74.8	76.1	76.8	78.1	79.4	79.4	80.7	80.7	80.7	80.7	80.7
≥ 1500	15.5	65.8	71.6	76.8	78.1	78.7	80.7	81.3	81.3	83.2	83.2	83.2	83.2	83.2
≥ 1200	15.5	65.8	71.6	77.4	78.7	79.4	81.3	81.9	81.9	84.5	84.5	84.5	84.5	84.5
≥ 1000	15.5	67.7	73.6	80.0	81.9	83.2	85.8	86.5	86.5	89.0	89.0	89.0	89.0	89.0
≥ 900	15.5	67.7	73.6	80.0	81.9	83.2	86.5	87.7	87.7	90.3	90.3	90.3	90.3	90.3
≥ 800	15.5	67.7	73.6	80.7	83.2	84.5	88.4	89.7	89.7	92.3	92.3	92.3	92.3	92.3
≥ 700	15.5	67.7	73.6	80.7	83.2	84.5	88.4	89.7	89.7	92.3	92.3	92.3	92.3	92.3
≥ 600	15.5	67.7	73.6	80.7	83.2	84.5	88.4	89.7	89.7	92.3	92.3	92.3	92.3	92.3
≥ 500	15.5	67.7	73.6	80.7	83.2	84.5	88.4	89.7	89.7	92.3	92.3	92.3	92.3	92.3
≥ 400	15.5	67.7	73.6	80.7	83.2	84.5	88.4	89.7	89.7	92.3	92.3	92.3	92.3	92.3
≥ 300	15.5	67.7	73.6	80.7	83.2	84.5	88.4	89.7	89.7	92.3	92.3	92.3	92.3	92.3
≥ 200	15.5	67.7	73.6	80.7	83.2	84.5	88.4	89.7	89.7	92.3	92.3	92.3	92.3	92.3
≥ 100	15.5	67.7	73.6	80.7	83.2	84.5	88.4	89.7	89.7	92.3	92.3	92.3	92.3	92.3
≥ 0	15.5	67.7	73.6	80.7	83.2	84.5	88.4	89.7	89.7	92.3	92.3	92.3	92.3	92.3

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	20.0	43.2	49.7	51.6	56.1	56.8	58.1	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 20000	21.3	47.7	54.8	57.4	61.9	62.6	63.9	65.8	66.5	67.1	67.1	67.1	67.1	67.1	67.1
≥ 18000	21.3	47.7	54.8	57.4	61.9	62.6	63.9	65.8	66.5	67.1	67.1	67.1	67.1	67.1	67.1
≥ 16000	21.3	47.7	54.8	57.4	61.9	62.6	63.9	65.8	66.5	67.1	67.1	67.1	67.1	67.1	67.1
≥ 14000	21.3	50.3	57.4	60.0	64.5	65.2	66.5	68.4	69.0	69.7	69.7	69.7	69.7	69.7	69.7
≥ 12000	21.9	52.3	59.4	61.9	66.5	67.1	68.4	70.3	71.0	71.6	71.6	71.6	71.6	71.6	71.6
≥ 10000	21.9	53.6	61.3	63.9	68.4	69.0	70.3	72.3	72.9	73.6	73.6	73.6	73.6	73.6	73.6
≥ 9000	21.9	53.6	61.3	63.9	68.4	69.0	70.3	72.3	72.9	73.6	73.6	73.6	73.6	73.6	73.6
≥ 8000	21.9	54.2	61.9	64.5	69.0	69.7	71.0	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 7000	21.9	54.2	61.9	64.5	69.0	69.7	71.0	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 6000	21.9	54.2	61.9	64.5	69.0	69.7	71.0	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 5000	21.9	54.2	61.9	64.5	69.0	69.7	71.0	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4500	21.9	54.2	61.9	64.5	69.0	69.7	71.0	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4000	21.9	55.5	63.2	65.8	70.3	71.0	72.3	74.2	74.8	75.5	75.5	75.5	75.5	75.5	75.5
≥ 3500	21.9	55.5	63.2	65.8	70.3	71.0	72.3	74.2	74.8	75.5	75.5	75.5	75.5	75.5	75.5
≥ 3000	21.9	55.5	63.2	65.8	70.3	71.0	72.3	74.2	74.8	75.5	75.5	75.5	75.5	75.5	75.5
≥ 2500	21.9	57.4	65.8	69.0	74.2	75.5	77.4	79.4	80.0	80.7	80.7	80.7	80.7	80.7	80.7
≥ 2000	21.9	59.4	69.0	72.3	77.4	78.7	80.7	82.6	83.2	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1800	21.9	59.4	69.0	72.3	77.4	78.7	80.7	82.6	83.2	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1500	21.9	61.9	71.6	76.8	81.9	83.2	85.2	87.1	87.7	89.0	89.7	89.7	89.7	89.7	89.7
≥ 1200	21.9	62.6	72.3	77.4	82.6	83.9	85.8	87.7	88.4	89.7	90.3	90.3	90.3	90.3	90.3
≥ 1000	21.9	63.9	73.6	78.7	83.9	85.2	87.7	89.7	90.3	91.6	92.3	92.3	92.3	92.3	92.3
≥ 900	21.9	63.9	73.6	78.7	83.9	85.2	87.7	89.7	90.3	91.6	92.3	92.3	92.3	92.3	92.3
≥ 800	21.9	63.9	73.6	78.7	83.9	85.8	89.0	91.0	91.6	92.9	93.6	93.6	93.6	93.6	93.6
≥ 700	21.9	63.9	73.6	78.7	84.5	85.8	89.0	91.0	91.6	92.9	93.6	93.6	93.6	93.6	93.6
≥ 600	21.9	63.9	73.6	78.7	84.5	85.8	89.0	91.0	91.6	92.9	93.6	93.6	93.6	93.6	93.6
≥ 500	21.9	63.9	73.6	78.7	84.5	85.8	89.0	91.0	91.6	92.9	93.6	93.6	93.6	93.6	93.6
≥ 400	21.9	63.9	73.6	78.7	84.5	85.8	89.0	91.0	92.3	93.6	94.2	94.2	94.2	94.2	94.2
≥ 300	21.9	63.9	73.6	78.7	84.5	85.8	89.0	91.0	92.3	93.6	94.2	94.2	94.2	94.2	94.2
≥ 200	21.9	63.9	73.6	78.7	84.5	85.8	89.0	91.0	92.3	93.6	94.2	94.2	94.2	94.2	94.2
≥ 100	21.9	63.9	73.6	78.7	84.5	85.8	89.0	91.0	92.3	93.6	94.2	94.2	94.2	94.2	94.2
≥ 0	21.9	63.9	73.6	78.7	84.5	85.8	89.0	91.0	92.3	93.6	94.2	94.2	94.2	94.2	94.2

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	16.8	46.5	50.3	54.2	60.7	62.6	65.2	65.8	65.8	67.7	67.7	67.7	67.7
≥ 20000	18.1	52.3	57.4	61.3	68.4	71.0	73.6	74.2	74.2	76.8	76.8	76.8	76.8
≥ 18000	18.1	52.3	57.4	61.3	68.4	71.0	73.6	74.2	74.2	76.8	76.8	76.8	76.8
≥ 16000	18.1	52.3	57.4	61.3	68.4	71.0	73.6	74.2	74.2	76.8	76.8	76.8	76.8
≥ 14000	18.7	54.2	59.4	63.2	70.3	72.9	75.5	76.1	76.1	78.7	78.7	78.7	78.7
≥ 12000	20.0	56.1	61.3	65.2	72.3	74.8	77.4	78.1	78.1	80.7	80.7	80.7	80.7
≥ 10000	20.0	57.4	62.6	66.5	73.6	76.1	78.7	79.4	79.4	81.9	81.9	81.9	81.9
≥ 9000	20.0	57.4	62.6	66.5	73.6	76.1	78.7	79.4	79.4	81.9	81.9	81.9	81.9
≥ 8000	20.0	57.4	62.6	66.5	73.6	76.1	78.7	79.4	79.4	81.9	81.9	81.9	81.9
≥ 7000	20.0	57.4	62.6	66.5	73.6	76.1	78.7	79.4	79.4	81.9	81.9	81.9	81.9
≥ 6000	20.0	58.1	63.2	67.1	74.2	76.8	79.4	80.0	80.0	82.6	82.6	82.6	82.6
≥ 5000	20.0	58.1	63.2	67.1	74.2	76.8	79.4	80.0	80.0	82.6	82.6	82.6	82.6
≥ 4500	20.0	58.1	63.2	67.1	74.2	76.8	79.4	80.0	80.0	82.6	82.6	82.6	82.6
≥ 4000	20.0	58.7	63.9	67.7	74.8	77.4	80.0	80.7	80.7	83.2	83.2	83.2	83.2
≥ 3500	20.0	59.4	64.5	68.4	75.5	78.1	80.7	81.3	81.3	83.9	83.9	83.9	83.9
≥ 3000	20.7	61.3	66.5	70.3	77.4	80.0	82.6	83.2	83.2	85.8	85.8	85.8	85.8
≥ 2500	20.7	63.2	68.4	72.9	80.7	83.2	85.8	86.5	86.5	89.0	89.0	89.0	89.0
≥ 2000	20.7	65.2	70.3	74.8	82.6	85.2	87.7	88.4	88.4	91.0	91.0	91.0	91.0
≥ 1800	20.7	65.2	70.3	74.8	82.6	85.2	87.7	88.4	88.4	91.0	91.0	91.0	91.0
≥ 1500	20.7	67.1	72.9	77.4	85.2	87.7	90.3	92.3	92.3	95.5	95.5	95.5	95.5
≥ 1200	20.7	67.7	73.6	78.1	85.8	88.4	91.0	92.9	92.9	96.1	96.1	96.1	96.1
≥ 1000	20.7	68.4	74.2	79.4	87.7	90.3	93.6	95.5	95.5	98.7	98.7	98.7	98.7
≥ 900	20.7	68.4	74.2	79.4	87.7	90.3	93.6	95.5	95.5	98.7	98.7	98.7	98.7
≥ 800	20.7	69.0	74.8	80.0	88.4	91.0	94.2	96.1	96.1	100.0	100.0	100.0	100.0
≥ 700	20.7	69.0	74.8	80.0	88.4	91.0	94.2	96.1	96.1	100.0	100.0	100.0	100.0
≥ 600	20.7	69.0	74.8	80.0	88.4	91.0	94.2	96.1	96.1	100.0	100.0	100.0	100.0
≥ 500	20.7	69.0	74.8	80.0	88.4	91.0	94.2	96.1	96.1	100.0	100.0	100.0	100.0
≥ 400	20.7	69.0	74.8	80.0	88.4	91.0	94.2	96.1	96.1	100.0	100.0	100.0	100.0
≥ 300	20.7	69.0	74.8	80.0	88.4	91.0	94.2	96.1	96.1	100.0	100.0	100.0	100.0
≥ 200	20.7	69.0	74.8	80.0	88.4	91.0	94.2	96.1	96.1	100.0	100.0	100.0	100.0
≥ 100	20.7	69.0	74.8	80.0	88.4	91.0	94.2	96.1	96.1	100.0	100.0	100.0	100.0
≥ 0	20.7	69.0	74.8	80.0	88.4	91.0	94.2	96.1	96.1	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

SANTA ANA, CALIFORNIA

STATION NAME

73-77

YEARS

DEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

16

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	17.4	51.6	53.6	59.4	67.1	67.7	69.7	71.0	71.6	71.6	72.3	72.3	72.3
≥ 20000	18.1	56.1	58.7	65.8	74.2	74.8	76.8	78.1	78.7	78.7	79.4	79.4	79.4
≥ 18000	16.1	56.1	58.7	65.8	74.8	75.5	77.4	78.7	79.4	79.4	80.0	80.0	80.0
≥ 16000	18.1	56.1	58.7	65.8	74.8	75.5	77.4	78.7	79.4	79.4	80.0	80.0	80.0
≥ 14000	20.0	60.0	62.6	70.3	79.4	80.0	81.9	83.2	83.9	83.9	84.5	84.5	84.5
≥ 12000	20.7	62.6	65.2	72.9	81.9	82.6	84.5	85.8	86.5	86.5	87.1	87.1	87.1
≥ 10000	20.7	63.2	65.8	74.2	83.2	84.5	86.5	87.7	88.4	88.4	89.0	89.0	89.0
≥ 9000	20.7	63.2	65.8	74.2	83.2	84.5	86.5	87.7	88.4	88.4	89.0	89.0	89.0
≥ 8000	20.7	63.2	65.8	74.2	83.2	84.5	86.5	87.7	88.4	88.4	89.0	89.0	89.0
≥ 7000	20.7	63.2	65.8	74.2	83.2	84.5	86.5	87.7	88.4	88.4	89.0	89.0	89.0
≥ 6000	20.7	63.9	66.5	74.8	84.5	85.8	87.7	89.0	89.7	89.7	90.3	90.3	90.3
≥ 5000	20.7	63.9	66.5	74.8	84.5	85.8	87.7	89.0	89.7	89.7	90.3	90.3	90.3
≥ 4500	20.7	63.9	66.5	74.8	84.5	85.8	87.7	89.0	89.7	89.7	90.3	90.3	90.3
≥ 4000	20.7	63.9	66.5	74.8	84.5	85.8	87.7	89.0	89.7	89.7	90.3	90.3	90.3
≥ 3500	20.7	63.9	66.5	74.8	84.5	85.8	87.7	89.0	89.7	89.7	90.3	90.3	90.3
≥ 3000	21.3	64.5	67.1	75.5	85.2	86.5	88.4	89.7	90.3	90.3	91.0	91.0	91.0
≥ 2500	21.9	65.2	67.7	76.1	85.8	87.1	89.0	90.3	91.0	91.0	91.6	91.6	91.6
≥ 2000	21.9	65.2	67.7	76.8	86.5	87.7	89.7	91.0	91.6	91.6	92.3	92.3	92.3
≥ 1800	21.9	65.2	67.7	76.8	86.5	87.7	89.7	91.0	91.6	91.6	92.3	92.3	92.3
≥ 1500	21.9	66.5	69.0	78.1	88.4	89.7	91.6	93.6	94.2	94.2	94.8	94.8	94.8
≥ 1200	21.9	67.7	70.3	79.4	89.7	91.0	92.9	94.8	95.5	95.5	96.1	96.1	96.1
≥ 1000	21.9	69.0	72.3	81.3	91.6	93.6	96.1	98.1	98.7	98.7	99.4	99.4	99.4
≥ 900	21.9	69.0	72.3	81.3	91.6	93.6	96.1	98.1	98.7	98.7	99.4	99.4	99.4
≥ 800	21.9	69.0	72.3	81.3	91.6	93.6	96.1	98.1	98.7	98.7	99.4	99.4	99.4
≥ 700	21.9	69.0	72.3	81.3	91.6	93.6	96.1	98.1	98.7	98.7	99.4	99.4	99.4
≥ 600	21.9	69.0	72.3	81.3	91.6	93.6	96.1	98.1	98.7	98.7	99.4	99.4	99.4
≥ 500	21.9	69.0	72.3	81.3	91.6	93.6	96.1	98.1	98.7	98.7	99.4	99.4	99.4
≥ 400	21.9	69.0	72.3	81.3	91.6	93.6	96.1	98.1	98.7	98.7	99.4	99.4	99.4
≥ 300	21.9	69.0	72.3	81.3	91.6	93.6	96.1	98.1	98.7	98.7	99.4	99.4	99.4
≥ 200	21.9	69.0	72.3	81.3	91.6	93.6	96.1	98.1	98.7	98.7	99.4	99.4	99.4
≥ 100	21.9	69.0	72.3	81.3	91.6	93.6	96.1	98.1	98.7	98.7	99.4	99.4	99.4
0	21.9	69.0	72.3	81.3	91.6	93.6	96.1	98.1	98.7	98.7	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

DEC
MONTH

19

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	8.4	56.8	60.0	63.2	69.7	71.0	71.0	71.0	71.6	72.3	72.3	72.3	72.9	72.9
≥ 20000	9.0	59.4	62.6	66.5	72.9	74.2	74.2	74.8	75.5	76.1	76.1	76.1	76.8	76.8
≥ 18000	9.0	59.4	62.6	66.5	72.9	74.2	74.2	74.8	75.5	76.1	76.1	76.1	76.8	76.8
≥ 16000	9.0	59.4	62.6	66.5	72.9	74.2	74.2	74.8	75.5	76.1	76.1	76.1	76.8	76.8
≥ 14000	9.7	62.6	65.8	69.7	76.1	77.4	78.1	78.1	78.7	79.4	79.4	79.4	80.0	80.0
≥ 12000	9.7	64.5	67.7	71.6	78.1	79.4	80.0	80.0	80.7	81.3	81.3	81.3	81.9	81.9
≥ 10000	9.7	65.8	69.7	73.6	80.0	81.3	81.9	81.9	82.6	83.2	83.2	83.2	83.9	83.9
≥ 9000	9.7	65.8	69.7	73.6	80.0	81.3	81.9	81.9	82.6	83.2	83.2	83.2	83.9	83.9
8000	9.7	65.8	69.7	73.6	80.0	81.3	82.6	82.6	83.2	83.9	83.9	83.9	84.5	84.5
7000	9.7	65.8	69.7	73.6	80.0	81.3	82.6	82.6	83.2	83.9	83.9	83.9	84.5	84.5
6000	9.7	65.8	69.7	73.6	80.0	81.3	82.6	82.6	83.2	83.9	83.9	83.9	84.5	84.5
5000	9.7	67.1	71.0	74.8	81.3	82.6	83.9	83.9	84.5	85.2	85.2	85.2	85.8	85.8
4500	9.7	67.1	71.0	74.8	81.3	82.6	83.9	83.9	84.5	85.2	85.2	85.2	85.8	85.8
4000	9.7	67.7	71.6	75.5	81.9	83.2	84.5	84.5	85.2	85.8	85.8	85.8	86.5	86.5
3500	9.7	68.4	72.3	76.1	82.6	83.9	85.2	85.2	85.8	86.5	86.5	86.5	87.1	87.1
3000	9.7	71.0	74.8	78.7	85.2	86.5	87.7	87.7	88.4	89.0	89.0	89.0	89.7	89.7
2500	9.7	72.9	76.8	80.7	87.1	88.4	90.3	90.3	91.0	91.6	91.6	91.6	92.3	92.3
2000	9.7	73.6	78.1	81.9	89.0	90.3	92.3	92.3	92.9	93.6	93.6	93.6	94.2	94.2
1800	9.7	73.6	78.1	81.9	89.0	90.3	92.3	92.3	92.9	93.6	93.6	93.6	94.2	94.2
1500	9.7	75.5	80.7	85.2	92.3	93.6	95.5	95.5	96.1	96.8	96.8	96.8	97.4	97.4
1200	9.7	75.5	81.3	85.8	92.9	94.2	96.1	96.1	96.8	97.4	97.4	97.4	98.1	98.1
1000	9.7	77.4	83.2	87.7	94.8	96.1	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0
900	9.7	77.4	83.2	87.7	94.8	96.1	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0
800	9.7	77.4	83.2	87.7	94.8	96.1	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0
700	9.7	77.4	83.2	87.7	94.8	96.1	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0
600	9.7	77.4	83.2	87.7	94.8	96.1	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0
500	9.7	77.4	83.2	87.7	94.8	96.1	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0
400	9.7	77.4	83.2	87.7	94.8	96.1	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0
300	9.7	77.4	83.2	87.7	94.8	96.1	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0
200	9.7	77.4	83.2	87.7	94.8	96.1	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0
100	9.7	77.4	83.2	87.7	94.8	96.1	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0
0	9.7	77.4	83.2	87.7	94.8	96.1	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

YEARS

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	7.1	54.8	60.0	62.6	68.4	69.0	72.9	73.6	73.6	73.6	73.6	73.6	73.6
≥ 20000	7.1	56.1	61.3	63.9	69.7	70.3	74.8	75.5	75.5	75.5	75.5	75.5	75.5
≥ 18000	7.1	56.1	61.3	63.9	69.7	70.3	74.8	75.5	75.5	75.5	75.5	75.5	75.5
≥ 16000	7.1	56.1	61.3	63.9	69.7	70.3	74.8	75.5	75.5	75.5	75.5	75.5	75.5
≥ 14000	7.1	59.4	64.5	67.1	72.9	73.6	78.1	78.7	78.7	78.7	78.7	78.7	78.7
≥ 12000	7.1	61.3	66.5	69.0	74.8	75.5	80.0	80.7	80.7	80.7	80.7	80.7	80.7
≥ 10000	7.1	61.9	67.1	69.7	75.5	76.1	80.7	81.3	81.3	81.3	81.3	81.3	81.3
≥ 9000	7.1	61.9	67.1	69.7	75.5	76.1	80.7	81.3	81.3	81.3	81.3	81.3	81.3
≥ 8000	7.1	63.2	68.4	71.0	76.8	77.4	81.9	82.6	82.6	82.6	82.6	82.6	82.6
≥ 7000	7.1	63.2	68.4	71.0	76.8	77.4	81.9	82.6	82.6	82.6	82.6	82.6	82.6
≥ 6000	7.1	63.2	68.4	71.0	76.8	77.4	81.9	82.6	82.6	82.6	82.6	82.6	82.6
≥ 5000	7.1	63.2	68.4	71.0	76.8	77.4	81.9	82.6	82.6	82.6	82.6	82.6	82.6
≥ 4500	7.1	63.2	68.4	71.0	76.8	77.4	81.9	82.6	82.6	82.6	82.6	82.6	82.6
≥ 4000	7.1	63.9	69.0	71.6	77.4	78.1	83.9	84.5	84.5	84.5	84.5	84.5	84.5
≥ 3500	7.1	64.5	69.7	72.3	78.1	78.7	83.9	84.5	84.5	84.5	84.5	84.5	84.5
≥ 3000	7.1	64.5	69.7	72.3	78.1	78.7	83.9	84.5	84.5	84.5	84.5	84.5	84.5
≥ 2500	7.1	64.5	70.3	72.9	78.7	79.4	84.5	85.2	85.2	85.2	85.2	85.2	85.2
≥ 2000	7.1	67.7	74.2	76.8	82.6	83.2	88.4	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1800	7.1	67.7	74.2	76.8	82.6	83.2	88.4	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1500	7.1	69.0	76.8	80.7	87.1	87.7	92.9	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1200	7.1	69.0	76.8	80.7	87.1	87.7	92.9	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1000	7.1	70.3	78.1	81.9	88.4	89.0	94.2	94.8	94.8	94.8	94.8	94.8	94.8
≥ 900	7.1	71.0	78.7	82.6	89.0	89.7	94.8	95.5	95.5	95.5	95.5	95.5	95.5
≥ 800	7.1	71.6	79.4	83.2	89.7	90.3	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 700	7.1	71.6	79.4	83.2	89.7	90.3	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 600	7.1	71.6	79.4	83.2	89.7	90.3	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 500	7.1	71.6	79.4	83.2	89.7	90.3	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 400	7.1	71.6	79.4	83.2	89.7	90.3	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 300	7.1	71.6	79.4	83.2	89.7	90.3	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 200	7.1	71.6	79.4	83.2	89.7	90.3	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 100	7.1	71.6	79.4	83.2	89.7	90.3	95.5	96.1	96.1	96.1	96.1	96.1	96.1
0	7.1	71.6	79.4	83.2	89.7	90.3	95.5	96.1	96.1	96.1	96.1	96.1	100.0

TOTAL NUMBER OF OBSERVATIONS 155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

SANTA ANA, CALIFORNIA

73-77

DEC

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	11.5	50.8	55.1	58.3	63.0	63.6	66.0	66.7	67.1	67.7	67.8	67.8	68.0	68.2
≥ 20000	12.2	53.7	58.5	62.0	66.9	67.6	70.1	71.1	71.3	72.0	72.2	72.2	72.3	72.6
≥ 18000	12.2	53.7	58.5	62.0	66.9	67.7	70.2	71.1	71.4	72.1	72.3	72.3	72.4	72.7
≥ 16000	12.2	53.7	58.5	62.0	66.9	67.7	70.2	71.1	71.4	72.1	72.3	72.3	72.4	72.7
≥ 14000	12.6	55.8	60.6	64.2	69.1	69.8	72.3	73.3	73.6	74.3	74.4	74.4	74.6	74.8
≥ 12000	12.9	57.7	62.4	66.1	71.0	71.7	74.2	75.2	75.4	76.1	76.3	76.5	76.5	76.7
≥ 10000	13.0	58.6	63.5	67.2	72.0	73.0	75.5	76.5	76.7	77.4	77.6	77.7	77.7	78.0
≥ 9000	13.0	58.6	63.5	67.2	72.2	73.0	75.5	76.5	76.7	77.4	77.6	77.7	77.7	78.0
≥ 8000	13.2	59.0	63.9	67.6	72.6	73.4	76.0	76.9	77.2	77.9	78.1	78.2	78.2	78.5
≥ 7000	13.2	59.0	64.0	67.7	72.7	73.6	76.1	77.1	77.3	78.1	78.2	78.4	78.4	78.6
≥ 6000	13.2	59.2	64.1	67.9	73.0	73.8	76.4	77.3	77.6	78.3	78.5	78.6	78.6	78.9
≥ 5000	13.2	59.4	64.3	68.1	73.2	74.0	76.6	77.6	77.8	78.6	78.7	78.9	78.9	79.1
≥ 4500	13.2	59.4	64.3	68.1	73.2	74.0	76.6	77.6	77.8	78.6	78.7	78.9	78.9	79.1
≥ 4000	13.2	60.1	65.0	68.9	74.0	74.8	77.5	78.5	78.7	79.4	79.6	79.6	79.8	80.0
≥ 3500	13.3	60.7	65.6	69.4	74.6	75.4	78.1	79.0	79.3	80.0	80.2	80.3	80.3	80.6
≥ 3000	13.5	61.7	66.8	70.7	75.8	76.7	79.4	80.4	80.7	81.4	81.5	81.7	81.7	81.9
≥ 2500	13.6	63.2	68.5	72.7	78.0	79.0	81.8	82.7	83.0	83.7	83.9	84.0	84.0	84.3
≥ 2000	13.6	64.7	70.4	74.7	80.1	81.1	83.9	84.8	85.1	85.8	86.0	86.1	86.1	86.4
≥ 1800	13.6	64.8	70.7	74.9	80.3	81.3	84.2	85.2	85.4	86.1	86.3	86.5	86.5	86.7
≥ 1500	13.6	66.9	73.1	78.2	83.8	84.8	87.7	88.9	89.1	90.1	90.3	90.5	90.5	90.7
≥ 1200	13.6	67.3	73.7	78.9	84.6	85.6	88.6	89.6	90.0	91.1	91.3	91.5	91.5	91.7
≥ 1000	13.6	68.8	75.2	80.7	86.6	87.7	91.2	92.4	92.7	93.8	94.0	94.2	94.2	94.4
≥ 900	13.6	68.9	75.4	80.8	86.8	87.9	91.5	92.7	93.0	94.3	94.5	94.7	94.7	94.9
≥ 800	13.6	69.1	75.7	81.2	87.3	88.5	92.2	93.5	93.8	95.1	95.3	95.5	95.5	95.7
≥ 700	13.6	69.2	75.9	81.4	87.5	88.6	92.3	93.6	94.0	95.2	95.5	95.7	95.7	95.9
≥ 600	13.6	69.2	75.9	81.4	87.6	88.7	92.4	93.7	94.0	95.3	95.6	95.7	95.7	96.0
≥ 500	13.6	69.3	76.0	81.5	87.7	88.9	92.6	93.9	94.2	95.5	95.7	96.0	96.0	96.2
≥ 400	13.6	69.3	76.0	81.5	87.7	88.9	92.6	93.9	94.3	95.6	95.8	96.1	96.1	96.3
≥ 300	13.6	69.3	76.1	81.5	87.8	89.0	92.7	94.0	94.4	95.8	96.1	96.4	96.4	96.6
≥ 200	13.6	69.3	76.1	81.5	87.8	89.0	92.7	94.0	94.4	95.9	96.1	96.5	96.5	97.2
≥ 100	13.6	69.3	76.1	81.5	87.8	89.0	92.7	94.0	94.4	95.9	96.1	96.6	96.6	98.0
0	13.6	69.3	76.1	81.5	87.8	89.0	92.7	94.0	94.4	95.9	96.1	96.6	97.0	100.0

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

73-77

TEARS

ALL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0	≥ 0
NO CEILING	13.0	49.6	52.9	55.4	58.4	59.1	60.3	60.7	60.8	61.1	61.1	61.2	61.2	61.3	61.4	61.4
≥ 20000	13.5	51.7	55.2	57.8	60.9	61.7	63.0	63.5	63.6	63.9	64.0	64.1	64.1	64.1	64.3	64.3
≥ 18000	13.6	51.9	55.3	58.0	61.1	61.8	63.2	63.7	63.8	64.1	64.2	64.2	64.2	64.3	64.4	64.4
≥ 16000	13.6	51.9	55.4	58.1	61.1	61.9	63.3	63.8	63.9	64.2	64.2	64.2	64.3	64.4	64.5	64.5
≥ 14000	13.7	52.5	56.0	58.7	61.8	62.5	63.9	64.4	64.5	64.8	64.9	65.0	65.0	65.1	65.2	65.2
≥ 12000	13.8	53.2	56.8	59.5	62.6	63.4	64.8	65.3	65.4	65.7	65.8	65.9	65.9	66.0	66.1	66.1
≥ 10000	14.0	54.1	57.7	60.4	63.6	64.4	65.9	66.4	66.5	66.8	66.9	67.0	67.0	67.1	67.2	67.2
≥ 9000	14.0	54.1	57.7	60.5	63.7	64.5	66.0	66.4	66.6	66.8	66.9	67.0	67.0	67.1	67.2	67.2
≥ 8000	14.2	54.8	58.4	61.2	64.4	65.2	66.7	67.2	67.3	67.6	67.7	67.8	67.8	67.9	68.0	68.0
≥ 7000	14.2	55.1	58.7	61.5	64.8	65.6	67.1	67.6	67.7	68.0	68.0	68.1	68.2	68.2	68.3	68.3
≥ 6000	14.3	55.2	58.9	61.7	65.0	65.8	67.3	67.8	67.9	68.2	68.3	68.4	68.4	68.5	68.6	68.6
≥ 5000	14.3	55.7	59.4	62.2	65.5	66.3	67.8	68.3	68.4	68.7	68.8	68.9	68.9	69.0	69.1	69.1
≥ 4500	14.4	56.0	59.7	62.5	65.8	66.7	68.2	68.7	68.8	69.1	69.2	69.3	69.3	69.4	69.5	69.5
≥ 4000	14.6	57.0	60.7	63.5	66.8	67.7	69.2	69.7	69.8	70.1	70.2	70.3	70.3	70.4	70.5	70.5
≥ 3500	14.8	58.1	61.9	64.8	68.1	68.9	70.4	70.9	71.1	71.4	71.4	71.5	71.5	71.6	71.7	71.7
≥ 3000	15.4	61.1	65.0	67.9	71.2	72.1	73.7	74.2	74.3	74.6	74.7	74.8	74.8	74.9	75.0	75.0
≥ 2500	15.9	63.9	67.9	70.9	74.3	75.2	76.9	77.3	77.5	77.8	77.9	77.9	78.0	78.1	78.2	78.2
≥ 2000	16.3	67.4	71.7	74.8	78.5	79.5	81.2	81.7	81.8	82.1	82.2	82.3	82.3	82.4	82.5	82.5
≥ 1800	16.4	67.8	72.2	75.3	79.1	80.1	81.7	82.3	82.4	82.7	82.8	82.9	82.9	83.0	83.1	83.1
≥ 1500	16.5	71.1	76.0	79.5	83.7	84.8	86.6	87.2	87.3	87.7	87.8	87.9	87.9	88.0	88.1	88.1
≥ 1200	16.5	72.2	77.3	81.0	85.5	86.7	88.7	89.3	89.5	89.8	89.9	90.0	90.0	90.1	90.2	90.2
≥ 1000	16.6	73.6	79.1	83.2	88.2	89.6	91.9	92.7	92.9	93.3	93.4	93.5	93.5	93.6	93.7	93.7
≥ 900	16.6	73.9	79.5	83.7	88.8	90.2	92.7	93.5	93.7	94.1	94.2	94.3	94.3	94.4	94.5	94.5
≥ 800	16.6	74.1	79.9	84.2	89.5	91.0	93.6	94.4	94.7	95.1	95.2	95.3	95.3	95.4	95.6	95.6
≥ 700	16.6	74.2	80.0	84.5	89.9	91.4	94.1	95.0	95.2	95.7	95.8	95.9	96.0	96.1	96.2	96.2
≥ 600	16.6	74.3	80.1	84.6	90.1	91.7	94.4	95.4	95.7	96.2	96.3	96.4	96.5	96.6	96.7	96.7
≥ 500	16.6	74.3	80.2	84.8	90.5	92.1	94.9	95.0	96.2	96.9	97.1	97.2	97.3	97.4	97.5	97.5
≥ 400	16.6	74.3	80.3	84.9	90.6	92.3	95.1	96.3	96.6	97.3	97.4	97.5	97.6	97.7	97.8	97.8
≥ 300	16.6	74.3	80.3	84.9	90.7	92.3	95.2	96.4	96.7	97.5	97.7	97.8	97.9	98.0	98.1	98.1
≥ 200	16.6	74.3	80.3	84.9	90.7	92.4	95.3	96.5	96.8	97.6	97.9	98.2	98.2	98.3	98.4	98.4
≥ 100	16.6	74.3	80.3	84.9	90.7	92.4	95.3	96.5	96.8	97.6	97.9	98.2	98.3	98.4	98.5	98.5
≥ 0	16.6	74.3	80.3	84.9	90.7	92.4	95.3	96.5	96.8	97.6	97.9	98.2	98.3	98.4	98.5	98.5

TOTAL NUMBER OF OBSERVATIONS

14606

JAN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JAN	01	44.5	4.5	4.5	6.5	4.5	3.9	3.2	1.3	3.9	2.6	20.6	3.6	155
	04	41.3	4.5	5.8	3.2	2.6	2.6	4.5	3.2	5.8	4.5	21.9	4.1	155
	07	25.2	9.7	9.0	8.4	5.8	3.2	3.2	3.9	7.1	5.8	18.7	4.3	155
	10	25.8	11.0	3.2	7.1	6.5	3.9	3.9	5.8	9.0	3.9	20.0	4.5	155
	13	21.3	5.8	11.6	5.8	5.2	3.2	6.5	5.8	11.0	7.1	16.8	4.8	155
	16	20.6	7.7	7.7	10.3	5.8	3.9	5.2	6.5	9.0	5.8	17.4	4.7	155
	19	39.4	1.9	8.4	5.8	5.8	2.6	3.2	5.2	3.2	3.2	21.3	4.0	155
	22	43.2	3.9	9.7	5.8	3.9	3.9	1.9	2.6	3.2	5.2	16.8	3.5	155
TOTALS		32.7	6.1	7.5	6.6	5.0	3.4	4.0	4.3	6.5	4.8	19.2	4.2	1240

MONTH

**PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

5704 SKY COVER JAN 68

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
FEB	01	39.7	4.3	7.1	5.0	2.8	2.8	5.7	1.4	7.1	5.7	18.4	4.0	141
	04	36.2	3.5	5.7	4.3	1.4	2.8	1.4	5.0	4.3	6.4	29.1	4.7	141
	07	18.4	6.4	5.7	6.4	1.4	8.5	1.4	5.7	5.7	12.8	27.7	5.7	141
	10	22.7	1.4	7.8	7.1	3.5	3.5	3.5	2.8	12.8	8.5	26.2	5.5	141
	13	20.6	5.0	6.4	5.7	4.3	4.3	5.0	8.5	9.2	8.5	22.7	5.4	141
	16	25.5	4.3	3.5	7.8	4.3	5.0	5.0	4.3	14.2	5.0	21.3	5.1	141
	19	29.8	6.4	12.1	7.8	7.8	2.1	1.4	7.1	9.2	3.5	12.8	3.9	141
	22	35.5	7.8	5.7	6.4	2.8	4.3	2.8	7.1	7.1	4.3	16.3	4.0	141
TOTALS		28.6	4.0	6.8	6.3	3.5	4.3	4.3	5.2	8.7	6.8	21.8	4.8	1128

MAR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

5704 SKY COVER JAN 68

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
MAR	01	37.4	2.6	6.5	5.8	2.6	3.2	1.9	3.9	7.1	5.8	23.2	4.4	155
	04	40.6	1.9	5.2	2.6	1.9	4.5	3.9	1.9	6.5	5.2	25.8	4.4	155
	07	21.9	6.4	5.8	6.5	3.2	2.6	2.6	6.5	8.4	5.8	28.4	5.3	155
	10	22.6	4.5	3.9	4.5	1.9	4.5	5.8	8.4	9.7	11.0	23.2	5.6	155
	13	18.1	8.4	5.8	3.9	3.2	6.5	6.5	9.0	7.7	9.0	21.9	5.4	155
	16	22.6	6.5	6.5	4.5	5.8	5.2	7.1	7.1	9.0	12.9	12.9	4.9	155
	19	34.8	6.5	3.9	7.7	4.5	5.2	3.2	6.5	7.1	2.6	18.1	4.1	155
	22	39.4	1.9	9.0	7.7	4.5	2.6	5.8	3.2	3.9	3.9	18.1	3.8	155
TOTALS		29.7	5.1	5.8	5.4	3.9	4.3	4.6	5.8	7.4	7.0	21.5	4.7	1240

NAVWEASERVCOM

PERIOD

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

5704 SKY COVER JAN 68

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
APR	01	46.0	1.3	6.0	4.0	2.0	3.3	2.0	4.7	5.3	3.3	22.0	3.9	150
	04	37.3	5.3	1.3	4.7	2.0	.7	4.0	.7	4.0	4.7	35.3	4.9	150
	07	22.0	6.7	3.3	4.0	6.0	6.7	3.3	4.7	4.7	8.0	30.7	5.5	150
	10	22.7	4.7	4.7	6.0	6.0	4.7	3.3	8.0	8.0	8.7	23.3	5.3	150
	13	30.0	7.3	6.0	6.7	4.7	6.0	4.7	6.0	6.0	12.7	10.0	4.2	150
	16	38.0	8.0	4.7	6.7	5.3	5.3	4.0	7.3	4.0	5.3	11.3	3.5	150
	19	27.3	8.7	6.7	8.7	5.3	2.7	3.3	4.7	7.3	2.7	12.7	3.4	150
	22	52.7	5.3	2.7	2.7	2.7	2.0	1.3	3.3	4.0	1.3	22.0	3.3	150
TOTALS		35.8	5.9	4.4	5.4	4.3	3.9	3.2	4.9	5.4	5.8	20.9	4.3	1200

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

72-77

PERIOD

MAY
MONTH

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9		
MAY	01	25.2	2.6	1.3	.6	1.3	1.9	.6	3.2	5.2	52.9	6.7	155
	04	15.5	1.3	2.6	3.2	1.3	2.6	1.3	1.3	5.2	61.3	7.5	155
	07	6.5	3.2	4.5	1.3	1.9	3.2	3.2	1.3	5.8	63.9	6.0	155
	10	9.7	5.2	9.0	5.2	7.1	5.2	5.2	6.5	4.5	33.5	6.2	155
	13	25.8	9.0	8.4	7.1	3.9	5.8	3.9	4.5	8.4	19.4	4.4	155
	16	34.8	5.2	10.3	3.9	5.8	3.2	.6	5.2	8.4	20.6	4.1	155
	19	31.0	6.5	9.0	5.2	5.2	4.5	1.3	1.9	5.8	27.1	4.5	155
	22	31.2	5.2	2.6	3.9	2.6	.6	1.9	1.9	3.9	40.9	5.5	154
TOTALS		225	4.8	6.0	3.8	3.6	3.4	2.3	3.2	5.9	40.0	5.9	1239

MONTH
JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

5704 SKY COVER JAN 68

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JUN	01	30.7	2.0	1.3	4.0	.7	1.3	2.7	2.7	2.0	50.7	6.0	150	
	04	21.3	2.7	.7	1.3	1.3		.7		2.7	64.0	7.2	150	
	07	12.0	1.3	5.3	.7	2.0	2.0	2.0	1.3	3.3	65.3	7.8	150	
	10	24.7	2.0	8.0	9.3	4.0	2.7	2.0	5.3	7.3	28.7	5.2	150	
	13	38.7	6.7	10.0	5.3	6.7	5.3	3.3	4.0	5.3	12.0	3.3	150	
	16	46.7	8.7	6.0	5.3	6.0	2.7	5.3	1.3	6.0	8.7	2.8	150	
	19	42.0	12.7	7.3	6.0	2.7	2.0	2.0	2.7	4.7	14.7	3.1	150	
	22	44.0	.7	4.0	3.3	2.0	2.7	2.0	2.0	6.7	.7	4.5	150	
TOTALS		325	46.6	5.3	4.4	3.2	2.5	2.4	2.5	4.9	3.2	34.5	5.0	1200

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

5704 SKY COVER JAN 68

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JUL	01	27.1	1.9	5.2	5.2	3.9	3.2	2.6	2.6	4.5	1.3	42.6	5.7	155
	04	20.6	1.9	4.5	1.9	2.6	.6	.6	1.3	3.9	1.3	60.6	6.9	155
	07	9.7	1.9	3.9	3.9	3.2	1.3	2.6	3.9	5.8	5.2	58.7	7.6	155
	10	26.5	7.1	12.3	11.0	5.2	3.2	3.9	7.1	6.5	2.6	14.8	4.0	155
	13	47.1	10.3	11.6	7.1	5.2	3.2	1.9	3.9	4.5	1.9	3.2	2.2	155
	16	56.1	3.2	9.7	11.6	3.9	1.3		3.9	3.9	3.9	2.6	2.0	155
	19	47.1	7.1	7.7	9.7	5.8	1.9	3.9	5.2	3.2	2.6	5.8	2.5	155
	22	41.9	6.5	5.8	7.1	3.9	.6	3.9	3.9	1.9		24.5	3.7	155
TOTALS		34.5	5.0	7.6	7.2	4.2	1.9	2.4	4.0	6.3	2.4	26.6	4.3	1240

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

5704 SKY COVER JAN 68

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
AUG	01	31.6	3.9	7.7	8.4	3.2	3.2	1.9	.6	3.2	4.5	31.6	4.7	155
	04	19.4	1.3	3.9	5.2	.6	.6	1.3	1.9	1.3	5.8	58.7	7.0	155
	07	7.7	3.2	4.5	3.9		2.6	1.3	1.9	3.2	5.2	66.5	7.9	155
	10	20.6	9.0	19.4	11.0	4.5	2.6	5.8	6.5	2.6	1.3	16.8	3.9	155
	13	48.4	14.2	12.9	5.2	5.2	3.2	2.6	1.3	2.6	.6	3.9	1.8	155
	16	61.3	12.3	5.2	7.1	3.9	1.3	1.3	.6	3.2	1.3	2.6	1.4	155
	19	61.9	9.0	6.5	2.6	5.2	2.6	3.9		3.2	.6	4.5	1.6	155
	22	54.8	7.7	5.2	3.9	2.6	3.2	1.3	1.9	3.9	1.3	14.2	2.6	155
TOTALS		28.2	7.6	8.2	5.9	3.2	2.4	2.4	1.8	2.9	2.6	24.9	3.9	1240

SEP
MONTH

**PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

5704 SKY COVER JAN 68

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
SEP	01	30.7	2.0	4.0	6.7	3.3	2.7	2.7	3.3	2.7	2.7	39.3	5.3	150
	04	22.0	4.0	3.3	4.0	.7	1.3	2.7	.7	2.0	1.3	58.0	6.6	150
	07	10.7	2.7	4.7	3.3	3.3	2.0	2.0	.7	6.0	5.3	59.3	7.5	150
	10	14.7	6.7	8.0	8.7	4.0	1.3	5.3	6.7	4.0	4.0	36.7	5.8	150
	13	31.3	10.0	12.0	10.0	4.7		3.3	4.7	5.3	2.0	16.7	3.6	150
	16	45.3	8.7	7.2	5.3	2.0	4.0	.7	2.7	6.7	4.0	13.3	3.1	150
	19	41.3	5.3	6.7	7.3	1.3	2.0	4.0	2.7	4.0	4.0	21.3	3.8	150
	22	43.3	2.0	4.0	3.3	6.0	.7	1.3	3.3	4.0	3.3	28.7	4.3	150
TOTALS		20.0	5.2	6.3	6.1	3.2	1.8	2.8	3.1	4.3	3.3	34.2	5.0	1200

SKY COVER

5704 SKY COVER JAN 68

93114 STATION NAME SANTA ANA, CALIFORNIA PERIOD 73-77 MONTH OCT

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
OCT	01	31.0	3.9	5.8	5.8	3.9	4.5	1.9	1.3	1.9	3.2	36.8	155
	04	29.7	2.6	1.9	5.8	.6	1.3	1.9	3.2	2.6	2.6	47.7	155
	07	18.1	1.9	6.5	1.9	5.2	.6	2.6	4.5	6.5	9.7	42.6	155
	10	19.4	1.9	9.0	7.1	5.8	5.2	6.5	7.1	12.3	8.4	17.4	155
	13	28.4	6.5	9.0	12.3	6.5	5.8	2.6	5.8	7.1	3.9	12.3	155
	16	40.0	9.0	11.0	9.0	5.2	1.9	4.5	1.9	3.9	4.5	9.0	155
	19	45.2	5.2	8.4	5.8	2.6	5.2	.6	2.6	7.1	2.6	14.8	155
	22	43.2	3.9	7.1	3.9	1.3	2.6	4.5	3.2	4.5	2.6	23.2	155
TOTALS		31.9	4.4	7.3	6.5	3.9	3.4	3.1	3.7	5.7	4.7	25.5	1240

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
NOV	01	46.7	4.0	3.3	6.0	3.3	4.0	2.7	2.7	3.3	2.7	21.3	3.6	150
	04	42.7	4.0	6.0	6.0	2.0	3.3	2.7	4.0	4.0	.7	24.7	3.9	150
	07	25.3	6.0	6.0	2.0	7.3	5.3	6.7	4.7	10.7	3.3	22.7	4.9	150
	10	26.0	8.0	8.0	7.3	4.0	4.7	4.7	5.3	10.7	6.0	15.3	4.4	150
	13	26.7	8.0	9.3	13.3	5.3	5.3	4.0	.7	11.3	4.0	12.0	3.9	150
	16	26.0	10.0	14.7	9.3	6.7	3.3	3.3	1.3	8.0	6.7	10.7	3.7	150
	19	38.7	10.0	10.0	10.7	4.0	6.7	2.7	3.3	5.3	.7	8.0	2.8	150
	22	38.7	11.3	10.0	6.0	4.7	4.7	.7	2.7	6.0	2.7	12.7	3.1	150
TOTALS		33.9	7.7	8.4	7.6	4.7	4.7	3.4	3.1	7.4	3.4	15.9	3.8	1200

PERIOD

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
DEC	01	42.6	1.9	9.0	4.5	5.8	1.9	.6	5.2	1.9	3.2	23.2	3.8	155
	04	43.2	3.2	5.8	5.8	1.3	.6	2.6	1.9	7.1	1.9	26.5	4.1	155
	07	23.2	5.2	7.1	8.4	5.2	5.8	3.9	5.2	5.8	5.8	24.5	5.0	155
	10	25.2	3.2	3.2	8.4	9.0	5.2	3.9	3.2	7.1	7.7	23.9	5.1	155
	13	23.9	7.7	3.9	10.3	5.8	3.9	5.2	5.8	7.7	8.4	17.4	4.7	155
	16	27.1	4.5	10.3	9.0	6.5	3.9	1.3	7.1	10.3	5.8	14.2	4.3	155
	19	40.6	2.6	7.7	9.0	4.5	1.9	5.8	3.9	5.8	4.5	13.5	3.6	155
	22	41.3	5.8	9.7	4.5	5.8	2.6	3.9	2.6	1.3	1.3	21.3	3.5	155
TOTALS		32.4	4.3	7.1	7.5	5.8	3.2	3.4	6.4	5.9	4.8	20.6	4.3	1240

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C

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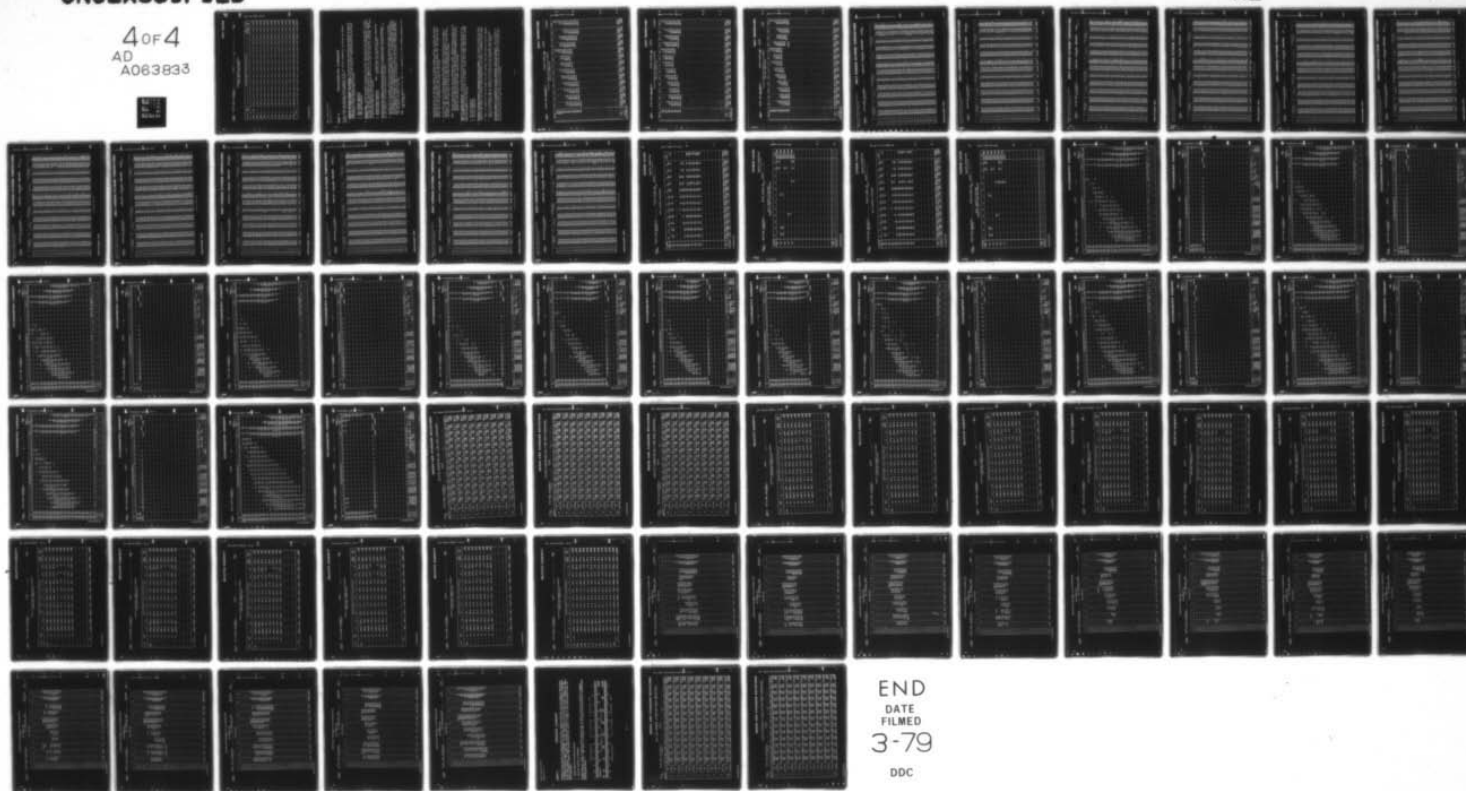
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS) SANTA AN--ETC(U)

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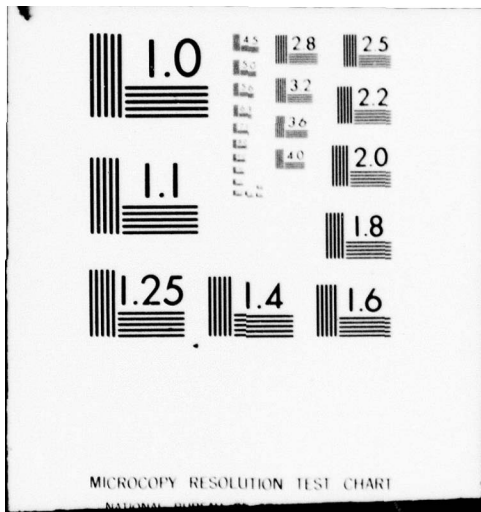
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SKY COVER

93114
STATIONSANTA ANA, CALIFORNIA
STATION NAME

73-77

PERIOD

ALL
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
JAN	ALL	32.7	6.1	7.5	6.6	5.0	3.4	4.0	4.3	6.5	4.8	19.2	1240
FEB		28.6	4.9	6.8	6.3	3.5	4.2	3.3	5.2	8.7	6.8	21.8	1128
MAR		29.7	5.1	5.8	5.4	3.5	4.3	4.6	5.8	7.4	7.0	21.5	1240
APR		35.8	5.9	4.4	5.4	4.3	3.9	3.2	4.9	5.4	5.8	20.9	1200
MAY		22.5	4.8	6.0	3.8	3.6	3.4	2.3	3.2	5.9	4.7	40.0	1239
JUN		32.5	4.6	5.3	4.4	3.2	2.5	2.4	2.5	4.9	3.2	34.5	1200
JUL		34.5	5.0	7.6	7.2	4.2	1.9	2.4	4.0	4.3	2.4	26.6	1240
AUG		38.2	7.6	8.2	5.9	3.2	2.4	2.4	1.8	2.9	2.6	24.9	1240
SEP		29.9	5.2	6.3	6.1	3.2	1.8	2.8	3.1	4.3	3.3	34.2	1200
OCT		31.9	4.4	7.3	6.5	3.9	3.4	3.1	3.7	5.7	4.7	25.5	1240
NOV		33.9	7.7	8.4	7.6	4.7	4.7	3.4	3.1	7.4	3.4	15.9	1200
DEC		33.4	4.3	7.1	7.5	5.5	3.2	3.4	4.4	5.9	4.8	20.6	1240
TOTALS		32.0	5.5	6.7	6.1	4.0	3.3	3.1	3.8	5.8	4.5	25.5	14607

PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:

- a. Daily maximum temperature
- b. Daily minimum temperature
- c. Daily mean temperature

2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:

- a. Extreme maximum temperature
- b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ($\sum x^2$), sums of values ($\sum x$), means (\bar{x}), and standard deviations (σx). The number of observations used in the computations for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

- a. Dry-bulb temperature
- b. Wet-bulb temperature
- c. Dew-point temperature

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.

b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

6. Percentage frequency of occurrence of dry-bulb temperature versus wind direction - This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in four degree increments and horizontally by eight wind directions (plus calm).

DAILY TEMPERATURES

STATION 14 SANTA ANA, CALIFORNIA 45-47, 51-53, 67-77

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
110									2				0
105									5				0
100									2				2
95									4				1
90									12				2
85									25				7
80									45				19
75									60				39
70									80				59
65									98				79
60									100				94
55													99
50													99
45													100
MEAN	65.2	66.3	65.9	68.3	70.5	74.0	79.4	81.2	80.5	76.0	71.2	65.3	72.0
S. D.	7.477	6.544	6.442	6.383	6.381	5.677	4.862	4.608	7.187	7.446	7.340	6.736	8.701
TOTAL OBS.	397	366	434	399	465	450	494	424	407	403	427	423	5099

NAVWEASERVCOM

19721 Daily Temperature 1969

DAILY TEMPERATURES

STATION 93114 SANTA ANA, CALIFORNIA 45-47, 51-53, 67-77

MEAN

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
90									.5				.0
85							.2		1.2				.1
80							.6	2.3	4.7	.5			.7
75					.2	2.0	9.7	16.9	16.9	3.5			4.4
70	.5		.2	.5	4.5	12.9	59.7	76.7	59.2	15.1	3.0	.2	20.1
65	3.8	1.1	2.1	7.5	24.5	70.0	97.0	98.4	95.3	53.1	12.6	2.4	40.3
60	14.1	14.8	23.5	40.4	75.5	97.3	100.0	100.0	100.0	90.8	45.9	12.8	61.1
55	43.6	63.7	65.4	82.5	98.7	100.0				98.3	86.7	47.3	82.9
50	81.1	93.4	95.2	98.5	100.0					99.8	98.8	87.2	96.3
45	99.0	99.2	99.8	100.0						100.0	100.0	98.6	99.7
40	100.0	100.0	100.0							100.0		100.0	100.0
35													
30													
25													
20													
15													
10													
5													
0													
MEAN	56.0	55.6	56.2	58.4	62.2	66.2	70.4	72.0	70.7	65.1	59.3	54.4	62.0
S. D.	5.187	4.031	4.263	4.159	3.649	3.480	3.376	3.377	4.541	4.746	4.678	4.627	7.644
TOTAL OBS.	397	366	434	399	465	450	494	434	402	403	427	423	3094

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION 93114 SANTA ANA, CALIFORNIA 1946-1947 1952-1952 9999-9999 JANUARY MONTH
YEARS

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		AVERAGE		EXTREME		MINIMUM TEMP		DATE
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	
1	52.8	11.6	63.0	17.2	76	24.4	42.6	5.9	34	1.1	34	1.1	1976*
2	51.7	10.9	61.2	16.2	70	21.1	42.2	5.7	32	0.0	32	0.0	1976
3	50.9	10.5	62.8	17.1	87	30.6	39.0	3.9	30	-1.1	30	-1.1	1952
4	51.0	10.6	62.3	16.8	86	30.0	39.7	4.3	28	-2.2	28	-2.2	1952
5	50.5	10.3	63.4	17.4	79	26.1	37.7	3.2	29	-1.7	29	-1.7	1972*
6	51.5	10.8	63.2	17.3	75	23.9	39.7	4.3	30	-1.1	30	-1.1	1973
7	51.9	11.1	62.2	16.8	73	22.8	41.6	5.3	34	1.1	34	1.1	1976
8	50.2	10.1	60.8	16.0	74	23.3	39.6	4.2	30	-1.1	30	-1.1	1968
9	51.8	11.0	63.3	17.4	74	23.3	40.4	4.7	32	0.0	32	0.0	1952
10	51.4	10.8	62.2	16.8	72	22.2	40.5	4.7	31	-0.6	31	-0.6	1952
11	51.9	11.1	63.5	17.5	71	21.7	40.3	4.6	33	0.6	33	0.6	1952
12	54.5	12.5	64.4	18.0	73	22.8	44.6	7.1	36	2.2	36	2.2	1976
13	55.5	13.1	67.2	19.6	82	27.8	43.7	6.5	35	1.7	35	1.7	1976
14	56.0	13.3	69.1	20.6	83	28.3	43.0	6.1	35	1.7	35	1.7	1968*
15	56.4	13.6	69.1	20.6	87	30.6	43.8	6.6	34	1.1	34	1.1	1971
16	57.3	14.1	68.3	20.2	89	31.7	46.4	8.0	35	1.7	35	1.7	1971
17	58.0	14.4	69.1	20.6	85	29.4	46.9	8.3	37	2.8	37	2.8	1946
18	56.4	13.6	67.6	19.8	83	28.3	45.2	7.3	31	-0.6	31	-0.6	1947
19	56.4	13.6	67.6	19.8	82	27.8	45.0	7.2	31	-0.6	31	-0.6	1947
20	55.8	13.2	66.2	19.0	82	27.8	45.2	7.3	31	-0.6	31	-0.6	1973
21	55.1	12.8	65.4	18.6	80	26.7	44.8	7.1	32	0.0	32	0.0	1947
22	55.6	13.1	66.4	19.1	76	24.4	44.8	7.1	33	0.6	33	0.6	1946
23	55.7	13.2	67.4	19.7	81	27.2	44.1	6.7	34	1.1	34	1.1	1947
24	56.1	13.4	68.5	20.3	81	27.2	43.7	6.5	32	0.0	32	0.0	1973*
25	54.9	12.7	66.0	18.9	76	24.4	43.8	6.6	32	0.0	32	0.0	1947
26	53.7	12.1	65.0	18.3	76	24.4	42.5	5.8	31	-0.6	31	-0.6	1947
27	54.2	12.3	66.0	18.9	80	26.7	42.4	5.8	32	0.0	32	0.0	1973
28	53.5	11.9	66.9	19.4	87	30.6	40.2	4.6	32	0.0	32	0.0	1973
29	52.9	11.6	65.4	18.6	78	25.6	40.4	4.7	32	0.0	32	0.0	1947
30	51.5	10.8	64.5	18.1	76	24.4	38.5	3.6	29	-1.7	29	-1.7	1946
31	52.7	11.5	64.4	18.0	80	26.7	41.0	5.0	32	0.0	32	0.0	1947
Monthly	53.8	12.1	65.2	18.4	89	31.7	42.4	5.8	28	-2.2	28	-2.2	1952

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

93114

SANTA ANA, CALIFORNIA

1946-1947

1952-1952

9999-9999

FEBRUARY

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		EXTREME		AVERAGE		MINIMUM TEMP		DATE
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	
1	34.3	12.4	65.9	18.8	82	27.8	1976	42.7	5.9	37	2.8	1946	
2	35.0	12.8	67.8	19.9	76	24.4	1974	42.2	5.7	34	1.1	1946	
3	35.7	13.2	68.5	20.3	79	26.1	1974	42.8	6.0	36	2.2	1972	
4	35.0	12.8	67.1	19.5	80	26.7	1947	43.0	6.1	35	1.7	1946	
5	34.2	12.3	65.3	18.5	75	23.9	1952	43.2	6.2	32	0.0	1946	
6	35.8	13.2	67.5	19.7	80	26.7	1952	44.1	6.7	31	-0.6	1946	
7	35.5	13.1	67.1	19.5	79	26.1	1970	43.9	6.6	34	1.1	1974	
8	36.0	13.3	65.7	18.7	83	28.3	1970	46.3	7.9	39	3.9	1974*	
9	36.6	13.7	65.2	18.4	81	27.2	1971	48.1	8.9	35	1.7	1946	
10	35.1	12.8	65.8	18.8	80	26.7	1977	44.5	6.9	30	-1.1	1946	
11	35.6	13.1	66.1	18.9	77	25.0	1977*	45.2	7.3	29	-1.7	1946	
12	35.6	13.1	67.0	19.4	84	28.9	1977	44.2	6.8	29	-1.7	1946	
13	35.1	12.8	65.5	18.6	80	26.7	1977	44.8	7.1	36	2.2	1972	
14	35.1	12.8	65.8	18.8	78	25.6	1977	44.5	6.9	31	-0.6	1946	
15	35.7	13.2	67.4	19.7	86	30.0	1977	44.0	6.7	34	1.1	1946	
16	34.8	12.7	65.2	18.4	85	29.4	1977	44.5	6.9	35	1.7	1952	
17	35.1	12.8	65.3	18.5	74	23.3	1977	44.9	7.2	35	1.7	1946	
18	34.2	12.3	65.2	18.4	73	22.8	1970	43.2	6.2	33	0.6	1952	
19	34.0	12.2	64.0	17.8	75	23.9	1973	44.0	6.7	36	2.2	1952	
20	34.7	12.6	65.6	18.7	75	23.9	1973	43.6	6.6	34	1.1	1946	
21	34.8	12.7	64.5	18.1	76	24.4	1976	45.1	7.3	38	3.3	1974	
22	35.6	13.1	67.2	19.6	79	26.1	1976	43.9	6.6	36	2.2	1976	
23	34.9	12.7	65.9	18.8	77	25.0	1968	43.8	6.6	38	3.3	1952	
24	36.1	13.4	67.5	19.7	81	27.2	1974	44.7	7.1	37	2.8	1971	
25	37.1	13.9	69.7	20.9	83	28.3	1968	44.5	6.9	38	3.3	1977	
26	36.1	13.4	67.3	19.6	76	24.4	1976	44.8	7.1	38	3.3	1974*	
27	35.9	13.3	66.8	19.3	73	22.8	1976	45.0	7.2	36	2.2	1971	
28	34.8	12.7	64.6	18.1	73	22.8	1977	45.0	7.2	36	2.2	1971	
29	36.5	13.6	65.7	18.7	76	24.4	1968	47.2	8.4	39	3.9	1952	
30													
31													
Monthly	55.3	12.9	66.3	19.1	86	30.0	1977	44.3	6.8	29	-1.7	1946	

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

STATION 93114 SANTA ANA, CALIFORNIA 1945-1947 1952-1952 9999-9999 MARCH MONTH
STATION NAME YEARS

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		EXTREME		AVERAGE		MINIMUM TEMP		EXTREME		DATE
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	
1	55.2	12.9	64.6	18.1	81	27.2	75	23.9	45.7	7.6	34	1.1	34	1.1	1945
2	54.9	12.7	64.4	18.0	75	23.9	77	25.0	45.4	7.4	38	3.3	38	3.3	1977*
3	54.0	12.2	64.5	18.1	77	25.0	92	33.3	43.5	6.4	34	1.1	34	1.1	1971
4	54.0	12.2	64.5	18.1	92	33.3	73	22.8	43.5	6.4	36	2.2	36	2.2	1976
5	53.8	12.1	64.1	17.8	73	22.8	76	24.4	43.4	6.3	34	1.1	34	1.1	1945
6	54.7	12.6	65.7	18.7	76	24.4	73	22.8	43.7	6.5	33	0.6	33	0.6	1967
7	54.1	12.3	64.5	18.1	73	22.8	72	22.2	43.7	6.5	35	1.7	35	1.7	1967
8	54.2	12.3	62.8	17.1	72	22.2	76	24.4	45.6	7.6	36	2.2	36	2.2	1967
9	54.2	12.3	62.8	17.1	67	19.4	72	22.2	45.6	7.6	37	2.8	37	2.8	1945
10	53.9	12.2	62.9	17.2	72	22.2	72	22.2	44.9	7.2	40	4.4	40	4.4	1947*
11	54.9	12.7	63.8	17.7	72	22.2	72	22.2	46.0	7.8	40	4.4	40	4.4	1969
12	55.4	13.0	65.8	18.8	81	27.2	81	27.2	44.9	7.2	40	4.4	40	4.4	1977
13	56.5	13.6	66.3	19.1	84	28.9	84	28.9	46.8	8.2	39	3.9	39	3.9	1976
14	56.4	13.6	67.5	19.7	83	28.3	83	28.3	45.3	7.4	35	1.7	35	1.7	1973
15	56.6	13.7	68.8	20.4	76	24.4	76	24.4	44.4	6.9	35	1.7	35	1.7	1973
16	57.8	14.3	68.9	20.5	80	26.7	80	26.7	46.8	8.2	39	3.9	39	3.9	1973
17	56.4	13.6	65.6	18.7	77	25.0	77	25.0	47.2	8.4	40	4.4	40	4.4	1977*
18	56.6	13.7	65.5	18.6	69	20.6	69	20.6	47.7	8.7	42	5.6	42	5.6	1977*
19	57.5	14.2	67.6	19.8	74	23.3	74	23.3	47.5	8.6	38	3.3	38	3.3	1945
20	56.7	13.7	66.5	19.2	77	25.0	77	25.0	47.0	8.3	40	4.4	40	4.4	1968
21	57.0	13.9	67.5	19.7	81	27.2	81	27.2	46.5	8.1	38	3.3	38	3.3	1968
22	57.2	14.0	67.3	19.6	85	29.4	85	29.4	47.0	8.3	41	5.0	41	5.0	1973
23	56.2	13.4	65.1	18.4	74	23.3	74	23.3	47.3	8.5	39	3.9	39	3.9	1973
24	57.3	14.1	68.6	20.3	79	26.1	79	26.1	46.0	7.8	35	1.7	35	1.7	1945
25	58.7	14.8	66.8	19.3	84	28.9	84	28.9	50.5	10.3	45	7.2	45	7.2	1967*
26	58.0	14.4	67.2	19.6	83	28.3	83	28.3	48.7	9.3	43	6.1	43	6.1	1947
27	56.9	13.8	66.7	19.3	80	26.7	80	26.7	47.2	8.4	39	3.9	39	3.9	1975*
28	57.2	14.0	66.6	19.2	78	25.6	78	25.6	47.7	8.7	37	2.8	37	2.8	1945
29	57.4	14.1	67.8	19.9	80	26.7	80	26.7	47.1	8.4	35	1.7	35	1.7	1973
30	57.7	14.3	68.2	20.1	82	27.8	82	27.8	47.2	8.4	31	-0.6	31	-0.6	1967
31	57.0	13.9	66.8	19.3	76	24.4	76	24.4	47.1	8.4	39	3.9	39	3.9	1973
Monthly	56.1	13.4	66.0	18.9	92	33.3	92	33.3	46.1	7.8	31	-0.6	31	-0.6	1967

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1978

STATION 93114 SANTA ANA, CALIFORNIA 1945-1947 1952-1952 9999-9999 APRIL MONTH
STATION NAME YEARS

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		AVERAGE		MINIMUM TEMP		DATE
	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	
1	57.3	14.1	66.8	19.3	81	27.2	47.9	8.8	43	6.1	1973
2	56.4	13.6	67.4	19.7	78	25.6	45.5	7.5	35	1.7	1973
3	56.7	13.7	68.3	20.2	87	30.6	45.0	7.2	35	1.7	1945
4	58.2	14.6	71.4	21.9	89	31.7	44.9	7.2	35	1.7	1945
5	58.9	14.9	72.1	22.3	83	28.3	45.7	7.6	35	1.7	1945
6	56.9	13.8	68.3	20.2	76	24.4	45.5	7.5	39	3.9	1967
7	57.5	14.2	68.2	20.1	79	26.1	46.8	8.2	39	3.9	1975
8	56.9	13.8	66.6	19.3	79	26.1	47.0	8.3	38	3.3	1973
9	56.5	13.6	66.7	19.3	77	25.0	46.3	7.9	39	3.9	1967
10	57.6	14.2	69.0	20.6	78	25.6	46.2	7.9	37	2.8	1945
11	58.0	14.4	68.8	20.4	85	29.4	47.2	8.4	34	1.1	1945
12	59.0	15.0	68.3	20.2	82	27.8	49.6	9.8	39	3.9	1945
13	58.5	14.7	67.6	19.8	93	33.9	49.3	9.6	42	5.6	1945
14	57.7	14.3	67.4	19.7	82	27.8	47.9	8.8	35	1.7	1945
15	57.1	13.9	67.4	19.7	77	25.0	46.6	8.2	36	2.2	1945
16	58.0	14.4	67.7	19.8	77	25.0	48.3	9.1	40	4.4	1967
17	57.0	13.9	65.5	18.6	74	23.3	48.4	9.1	40	4.4	1967
18	57.8	14.3	66.5	19.2	77	25.0	49.2	9.6	42	5.6	1976*
19	57.9	14.4	67.2	19.6	78	25.6	48.6	9.2	37	2.8	1967
20	58.3	14.6	68.5	20.3	81	27.2	48.2	9.0	34	1.1	1967
21	58.2	14.6	68.1	20.1	79	26.1	48.3	9.1	39	3.9	1973
22	58.8	14.9	68.3	20.2	82	27.8	49.3	9.6	42	5.6	1973
23	59.1	15.1	69.9	21.1	82	27.8	48.4	9.1	40	4.4	1967
24	58.5	14.7	67.9	19.9	81	27.2	49.1	9.5	41	5.0	1967
25	59.1	15.1	68.7	20.4	77	25.0	49.5	9.7	41	5.0	1967
26	60.0	15.6	70.0	21.1	81	27.2	50.0	10.0	40	4.4	1967
27	59.0	15.0	68.7	20.4	84	28.9	49.3	9.6	41	5.0	1967*
28	59.2	15.1	68.2	20.1	79	26.1	50.2	10.1	41	5.0	1970
29	59.6	15.3	68.9	20.5	75	23.9	50.3	10.2	41	5.0	1967
30	60.3	15.7	69.9	21.1	80	26.7	50.7	10.4	42	5.6	1967
31											
Monthly	58.2	14.6	68.3	20.2	93	33.9	48.0	8.9	34	1.1	1967*

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

25 DAILY AVERAGE/EXTREME TEMP MAR 1978

STATION 93114 SANTA ANA, CALIFORNIA 1945-1947 1952-1953 9999-9999 MAY MONTH
STATION NAME YEARS

DAY	MEAN TEMP		MAXIMUM TEMP		MINIMUM TEMP		DATE
	AVERAGE °F	°C	AVERAGE °F	EXTREME °F	AVERAGE °F	EXTREME °F	
1	60.9	16.1	71.1	85	50.6	39	1947
2	63.1	17.3	74.4	92	51.8	42	1970
3	61.5	16.4	71.0	92	51.9	41	1970
4	61.0	16.1	69.6	90	52.3	45	1953
5	60.1	15.6	67.7	94	52.5	46	1953
6	59.1	15.1	67.4	86	50.9	38	1967
7	59.8	15.4	69.1	81	50.5	44	1967
8	60.4	15.8	68.3	78	52.4	48	1953
9	60.8	16.0	69.8	80	51.9	42	1969
10	61.4	16.3	69.1	75	53.7	46	1976*
11	61.9	16.6	69.7	79	54.2	48	1953
12	61.2	16.2	69.7	81	52.7	39	1972
13	62.1	16.7	71.6	84	52.7	42	1976
14	62.5	16.9	70.9	89	54.1	45	1967
15	62.9	17.2	72.5	98	53.3	43	1967
16	62.1	16.7	70.9	92	53.3	49	1967
17	63.2	17.3	73.1	55	53.3	42	1970
18	62.5	16.9	71.6	84	53.5	44	1971
19	61.4	16.3	69.3	82	53.6	46	1968
20	62.3	16.8	69.7	77	54.9	45	1977
21	61.6	16.4	69.7	79	53.5	42	1974
22	61.3	16.3	69.9	82	52.6	44	1974
23	61.4	16.3	69.1	76	53.8	50	1967
24	62.5	16.9	70.3	75	54.7	43	1974
25	62.5	16.9	70.5	90	54.5	43	1974
26	62.5	16.9	71.1	88	53.6	44	1968
27	63.3	17.4	71.3	86	55.3	45	1972
28	63.7	17.6	73.4	96	54.1	45	1973
29	63.3	17.4	71.3	86	55.4	41	1972
30	64.2	17.9	71.7	84	56.7	45	1972
31	64.5	18.1	71.1	81	57.9	50	1972
Monthly	62.0	16.7	70.5	98	53.4	38	1967

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION 93114 SANTA ANA, CALIFORNIA 1945-1947 1952-1953 9999-9999 JUNE MONTH

YEARS

STATION NAME

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		AVERAGE		EXTREME		DATE	
	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
1	64.1	17.8	71.7	22.1	78	25.6	56.5	13.6	48	8.9	1971*	1971*
2	64.0	17.8	71.5	21.9	81	27.2	56.5	13.6	42	5.6	1967	1967
3	64.5	18.1	71.4	21.9	76	24.4	57.6	14.2	47	8.3	1967	1967
4	64.6	18.1	72.3	22.4	80	26.7	56.9	13.8	45	7.2	1967	1967
5	65.3	18.5	72.7	22.6	83	28.3	57.9	14.4	51	10.6	1947	1947
6	64.5	18.1	71.6	22.0	80	26.7	57.3	14.1	50	10.0	1967	1967
7	64.3	17.9	70.9	21.6	80	26.7	57.7	14.3	52	11.1	1967	1967
8	63.5	17.5	69.4	20.8	76	24.4	57.6	14.2	50	10.0	1945	1945
9	63.8	17.7	70.4	21.3	80	26.7	57.2	14.0	50	10.0	1946	1946
10	64.3	17.9	71.5	21.9	82	27.8	57.1	13.9	48	8.9	1946	1946
11	65.5	18.6	73.2	22.9	82	27.8	57.9	14.4	51	10.6	1945	1945
12	64.9	18.3	73.3	22.9	80	26.7	56.6	13.7	50	10.0	1947*	1947*
13	64.8	18.2	72.1	22.3	76	24.4	57.5	14.2	53	11.7	1946	1946
14	66.1	18.9	74.3	23.5	81	27.2	57.9	14.4	51	10.6	1970	1970
15	66.4	19.1	75.5	24.2	87	30.6	57.3	14.1	54	12.2	1977*	1977*
16	65.5	18.6	73.8	23.2	82	27.8	57.3	14.1	50	10.0	1973	1973
17	65.5	18.6	73.3	22.9	80	26.7	57.7	14.3	53	11.7	1973*	1973*
18	66.4	19.1	75.0	23.9	83	28.3	57.7	14.3	54	12.2	1946	1946
19	67.0	19.4	76.2	24.6	92	33.3	57.8	14.3	54	12.2	1974*	1974*
20	67.5	19.7	77.2	25.1	97	36.1	57.9	14.4	52	11.1	1973	1973
21	66.7	19.3	75.5	24.2	95	35.0	58.0	14.4	53	11.7	1974*	1974*
22	67.2	19.6	74.4	23.6	90	32.2	60.0	15.6	53	12.8	1947	1947
23	67.3	19.6	75.3	24.1	88	31.1	59.3	15.2	52	11.1	1973	1973
24	66.9	19.4	75.2	24.0	94	34.4	58.5	14.7	52	11.1	1946*	1946*
25	67.9	19.9	76.5	24.7	92	33.3	59.3	15.2	54	12.2	1975*	1975*
26	68.2	20.1	77.7	25.4	91	32.8	58.7	14.8	50	10.0	1945	1945
27	68.0	20.0	77.5	25.3	102	38.9	58.4	14.7	54	12.2	1975*	1975*
28	67.4	19.7	76.1	24.5	94	34.4	58.8	14.9	52	11.1	1963	1963
29	67.1	19.5	76.3	24.6	85	29.4	57.9	14.4	50	10.0	1967	1967
30	67.6	19.8	77.4	25.2	84	28.9	57.7	14.3	50	10.0	1947	1947
31												
Monthly	65.9	18.8	74.0	23.3	102	38.9	57.8	14.3	42	5.6	1967	1967

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

STATION 93114 SANTA ANA, CALIFORNIA 1945-1947 1952-1953 9999-9999 JULY MONTH
STATION NAME YEARS

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		AVERAGE		MINIMUM TEMP		DATE
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	
1	66.8	19.3	76.4	24.7	80	26.7	57.1	13.9	49	9.4	1952
2	68.0	20.0	78.2	25.7	94	34.4	57.9	14.4	51	10.6	1963
3	68.4	20.2	78.3	25.7	87	30.6	58.5	14.7	52	11.1	1963
4	68.2	20.1	78.1	25.6	92	33.3	58.4	14.7	51	10.6	1947
5	68.5	20.3	76.5	24.7	84	28.9	60.6	15.9	56	13.3	1947*
6	65.6	20.3	76.5	24.7	87	30.6	60.8	16.0	55	12.8	1977
7	68.9	20.5	77.2	25.1	88	31.1	60.6	15.9	56	13.3	1952
8	69.7	20.9	78.8	26.0	88	31.1	60.6	15.9	51	10.6	1952
9	70.0	21.1	80.7	27.1	92	33.3	59.4	15.2	50	10.0	1952
10	70.2	21.2	80.6	27.0	98	36.7	59.7	15.4	49	9.4	1952
11	70.2	21.2	80.1	26.7	91	32.8	60.2	15.7	50	10.0	1952
12	69.6	20.9	79.9	26.6	89	31.7	59.3	15.2	48	8.9	1952
13	69.3	20.7	78.5	25.8	85	29.4	60.1	15.6	45	7.2	1952
14	69.0	20.6	77.4	25.2	83	28.3	60.5	15.8	48	8.9	1952
15	69.5	20.8	76.8	24.9	84	28.9	62.2	16.8	56	13.3	1952
16	69.6	20.9	77.7	25.4	88	31.1	61.5	16.4	56	13.3	1952
17	69.6	20.9	78.1	25.6	88	31.1	61.1	16.2	53	11.7	1947
18	70.2	21.2	79.4	26.3	86	30.0	61.1	16.2	53	12.8	1947
19	70.3	21.3	78.9	26.1	88	31.1	61.7	16.5	53	12.8	1947*
20	70.7	21.5	79.5	26.4	90	32.2	61.9	16.6	56	13.3	1968
21	70.5	21.4	79.2	26.2	83	28.3	61.9	16.6	56	13.3	1952
22	70.0	21.1	78.8	26.0	84	28.9	61.3	16.3	51	10.6	1952
23	71.1	21.7	79.9	26.6	90	32.2	62.2	16.8	56	13.3	1972
24	71.5	21.9	81.0	27.2	88	31.1	62.1	16.7	53	12.8	1947
25	72.0	22.2	81.8	27.7	89	31.7	62.1	16.7	57	13.9	1947
26	72.3	22.4	82.7	28.2	95	35.0	62.0	16.7	55	12.8	1947
27	73.2	22.9	83.5	28.6	97	36.1	62.8	17.1	55	12.8	1947
28	72.8	22.7	82.1	27.8	89	31.7	63.4	17.4	60	15.6	1963*
29	73.3	22.9	82.7	28.2	96	35.6	64.0	17.8	60	15.6	1963*
30	72.8	22.7	81.9	27.7	97	36.1	63.6	17.6	58	14.4	1947
31	73.1	22.8	82.7	28.2	93	33.9	63.5	17.5	57	13.9	1970*
Monthly	70.3	21.3	79.5	26.4	98	36.7	61.0	16.1	45	7.2	1952

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMPERATURES MAR 1978

STATION 93114 SANTA ANA, CALIFORNIA STATION NAME 1943-1947 1952-1953 9999-9999 YEARS MONTH AUGUST

DAY	MEAN TEMP		MAXIMUM TEMP			MINIMUM TEMP			DATE
	AVERAGE ° F	AVERAGE ° C	AVERAGE ° F	EXTREME ° F	EXTREME ° C	AVERAGE ° F	EXTREME ° F	EXTREME ° C	
1	73.2	22.9	82.9	92	33.3	63.5	59	17.5	1972
2	72.2	22.3	80.8	88	31.1	63.5	56	17.5	1971
3	72.2	22.3	79.8	89	31.7	64.5	61	18.1	1971
4	72.2	22.3	81.0	92	33.3	63.4	58	17.4	1971
5	71.6	22.0	80.2	91	32.8	63.0	56	17.2	1971
6	72.4	22.4	81.9	91	32.8	62.8	57	17.1	1971
7	72.7	22.6	82.8	93	33.9	62.5	55	16.9	1970
8	72.0	22.2	82.3	91	32.8	61.8	54	16.6	1971
9	72.2	22.3	81.5	89	31.7	62.8	53	17.1	1969
10	72.5	22.5	81.5	89	31.7	63.5	59	17.5	1969
11	72.3	22.4	81.6	87	30.6	63.1	60	17.3	1966
12	72.1	22.3	80.6	86	30.0	63.5	56	17.5	1967
13	72.0	22.2	80.7	86	30.0	63.4	52	17.4	1967
14	71.1	21.7	80.1	85	29.4	62.2	50	16.8	1969
15	70.5	21.4	78.8	85	29.4	62.2	49	16.8	1963
16	71.3	21.8	80.0	89	31.7	62.6	53	17.0	1977
17	72.0	22.2	80.9	96	35.6	63.1	55	17.3	1945
18	70.8	21.6	80.2	91	32.8	61.4	57	16.3	1967
19	71.6	22.0	80.5	92	33.3	62.8	59	17.1	1973
20	72.0	22.2	80.9	87	30.6	63.2	57	17.3	1969
21	71.7	22.1	81.6	94	34.4	61.7	58	16.5	1969
22	71.5	21.9	82.3	99	37.2	60.7	56	15.9	1969
23	72.2	22.3	84.7	99	37.2	59.8	50	15.4	1968
24	70.5	21.4	81.4	91	32.8	59.6	55	15.3	1968
25	71.3	21.8	81.2	89	31.7	61.4	56	16.3	1968
26	70.6	21.4	80.7	89	31.7	60.5	54	15.8	1968
27	70.3	21.3	80.2	89	31.7	60.5	54	15.8	1967
28	71.3	21.8	81.7	89	31.7	60.9	52	16.1	1971
29	71.1	21.7	82.3	93	33.9	59.8	55	15.4	1967
30	70.6	21.4	82.0	96	35.6	59.2	48	15.1	1976
31	71.2	21.8	81.5	95	35.0	60.8	50	16.0	1967
Monthly	71.6	22.0	81.2	99	37.2	62.1	48	16.7	1969

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION 93114 SANTA ANA, CALIFORNIA 1945-1947 1952-1953 9999-9999 SEPTEMBER MONTH
STATION NAME YEARS

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		AVERAGE		MINIMUM TEMP		DATE
	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	
1	71.4	21.9	81.2	27.3	94	34.4	61.6	16.4	58	14.4	1975*
2	72.0	22.2	81.5	27.5	89	31.7	62.4	16.9	56	13.3	1975
3	71.5	21.9	80.4	26.9	91	32.8	62.7	17.1	56	13.3	1975
4	72.7	22.6	82.3	27.9	92	33.3	63.1	17.3	57	13.9	1977
5	72.1	22.3	81.9	27.7	89	31.7	62.3	16.8	58	14.4	1973
6	72.7	22.6	83.7	28.7	95	35.0	61.7	16.5	53	11.7	1968
7	73.2	22.9	83.5	28.6	96	35.6	62.9	17.2	55	12.8	1973*
8	72.7	22.6	82.8	28.2	94	34.4	62.6	17.0	57	13.9	1968
9	71.9	22.2	82.5	28.1	93	33.9	61.2	16.2	55	12.8	1977*
10	71.8	22.1	80.8	27.1	90	32.2	62.8	17.1	56	13.3	1963
11	70.6	21.4	81.4	27.4	98	36.7	59.8	15.4	54	12.2	1968*
12	71.1	21.7	81.1	27.3	102	38.9	61.1	16.2	54	12.2	1972
13	70.4	21.3	79.4	26.3	101	38.3	61.4	16.3	52	11.1	1977
14	68.8	20.4	76.5	24.7	86	30.0	61.2	16.2	52	11.1	1972
15	68.5	20.3	76.6	24.8	83	28.3	60.4	15.8	53	11.7	1974
16	68.8	20.4	77.5	25.3	92	33.3	60.2	15.7	53	11.7	1970
17	68.7	20.4	77.4	25.2	91	32.8	59.9	15.5	53	11.7	1968
18	68.3	20.2	77.3	25.2	85	29.4	59.4	15.2	53	11.7	1977
19	68.2	20.1	76.2	24.6	82	27.8	60.3	15.7	54	12.2	1973
20	67.7	19.8	76.8	24.9	84	28.9	58.7	14.8	52	11.1	1972
21	68.5	20.3	78.2	25.7	86	30.0	58.7	14.8	53	11.7	1977*
22	69.6	20.9	81.2	27.3	92	33.3	58.0	14.4	49	9.4	1968
23	69.8	21.0	81.7	27.6	101	38.3	57.9	14.4	47	8.3	1945
24	69.3	20.7	80.6	27.0	100	37.8	58.0	14.4	46	7.8	1945
25	69.9	21.1	82.7	28.2	98	36.7	57.1	13.9	47	8.3	1945
26	71.6	22.0	84.2	29.0	112	44.4	59.0	15.0	45	7.2	1945
27	72.0	22.2	82.8	28.2	106	41.1	61.2	16.2	54	12.2	1945
28	70.0	21.1	81.8	27.7	101	38.3	58.2	14.6	48	8.9	1945
29	69.7	20.9	80.6	27.0	96	35.6	58.9	14.9	44	6.7	1945
30	68.9	20.5	78.6	25.9	89	31.7	59.2	15.1	48	8.9	1945
31											
Monthly	70.5	21.4	80.4	26.9	112	44.4	60.4	15.8	44	6.7	1945

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION 93114 SANTA ANA, CALIFORNIA 1945-1947 1952-1953 9999-9999 OCTOBER MONTH
STATION NAME YEARS

DAY	MEAN TEMP		MAXIMUM TEMP		MINIMUM TEMP		DATE
	AVERAGE °F	AVERAGE °C	AVERAGE °F	EXTREME °F	AVERAGE °F	EXTREME °F	
1	68.1	20.1	77.0	94	59.2	50	1945
2	67.7	19.8	77.7	96	57.6	48	1945
3	67.1	19.5	77.7	90	56.5	48	1945
4	67.3	19.6	77.7	95	56.9	48	1945
5	67.5	19.7	78.4	99	56.5	47	1945
6	68.6	20.3	78.9	99	58.3	47	1945
7	67.7	19.8	78.3	90	57.1	47	1945
8	66.7	19.3	78.2	96	55.2	48	1945
9	66.0	18.9	77.7	96	54.4	45	1945
10	65.5	18.6	77.5	93	53.3	47	1945
11	65.9	18.8	78.5	93	53.3	43	1945
12	65.0	18.3	75.7	80	54.4	47	1945
13	65.8	18.8	76.9	85	54.6	46	1945
14	66.7	19.3	76.2	83	57.2	51	1945
15	66.8	19.3	78.4	97	55.2	49	1945
16	65.8	18.8	77.2	97	54.4	43	1945
17	65.3	18.5	77.2	95	53.4	44	1945
18	65.1	18.4	75.8	92	54.5	45	1945
19	63.8	17.7	74.2	92	53.5	43	1945
20	62.9	17.2	71.9	76	53.8	42	1945
21	63.2	17.3	72.7	78	53.6	41	1945
22	63.4	17.4	73.2	81	53.5	46	1945
23	63.5	17.5	73.8	85	53.2	45	1945
24	64.3	17.9	78.0	92	50.7	45	1945
25	63.0	17.2	77.2	87	48.8	41	1945
26	61.5	16.4	72.8	83	50.2	41	1945
27	63.8	17.7	74.2	95	53.4	48	1945
28	62.5	16.9	73.9	87	51.0	40	1945
29	61.0	16.1	73.9	90	48.0	30	1945
30	61.3	16.3	73.0	91	49.7	36	1945
31	59.4	15.2	73.1	90	45.8	38	1945
Monthly	64.9	18.3	76.0	99	53.8	30	1945

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1978

STATION 93114 SANTA ANA, CALIFORNIA STATION NAME 1963-1947 1951-1953 9999-9999 YEARS MONTH NOVEMBER

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		AVERAGE		MINIMUM TEMP		DATE
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	
1	60.4	15.8	74.7	23.7	87	30.6	46.1	7.8	41	5.0	1973*
2	61.5	16.4	75.7	24.3	95	35.0	47.3	8.5	41	5.0	1971*
3	62.5	16.9	75.4	24.1	92	33.3	49.6	9.8	40	4.4	1951
4	61.6	16.4	74.0	23.3	95	35.0	49.2	9.6	39	3.9	1946
5	60.3	15.7	71.4	21.9	91	32.8	49.2	9.6	41	5.0	1973
6	60.3	15.7	73.1	22.8	85	29.4	47.6	8.7	37	2.8	1973
7	59.3	15.2	71.1	21.7	86	30.0	47.6	8.7	39	3.9	1973
8	60.1	15.6	71.6	22.0	87	30.6	48.6	9.2	36	2.2	1945
9	59.1	15.1	73.2	22.9	80	26.7	45.0	7.2	33	0.6	1945
10	59.2	15.1	72.8	22.7	86	30.0	45.5	7.5	34	1.1	1945
11	60.2	15.7	73.0	22.8	86	30.0	47.3	8.5	41	5.0	1945
12	60.0	15.6	71.0	21.7	89	31.7	48.9	9.4	34	1.1	1945
13	60.4	15.8	70.6	21.4	86	30.0	50.1	10.1	40	4.4	1945
14	59.3	15.2	70.0	21.1	82	27.8	48.7	9.3	39	3.9	1945
15	58.8	14.9	69.8	21.0	82	27.8	47.7	8.7	37	2.8	1971
16	59.1	15.1	70.3	21.3	89	31.7	47.8	8.8	40	4.4	1971*
17	59.4	15.2	70.5	21.4	87	30.6	48.3	9.1	35	1.7	1945
18	57.1	13.9	67.6	19.8	81	27.2	46.5	8.1	37	2.8	1945
19	58.1	14.5	68.9	20.5	79	26.1	47.3	8.5	35	1.7	1945
20	58.1	14.5	69.8	21.0	83	28.3	46.4	8.0	35	1.7	1945
21	57.9	14.4	68.7	20.4	78	25.6	47.1	8.4	37	2.8	1975
22	57.2	14.0	68.8	20.4	77	25.0	45.7	7.6	38	3.3	1945
23	57.7	14.3	71.0	21.7	82	27.8	44.5	6.9	34	1.1	1945
24	57.3	14.1	71.2	21.8	88	31.1	43.4	6.3	32	0.0	1945
25	58.7	14.8	72.5	22.5	90	32.2	44.9	7.2	38	3.3	1968
26	58.7	14.8	72.6	22.6	85	29.4	44.6	7.1	36	2.2	1951
27	57.6	14.2	70.3	21.3	83	28.3	44.9	7.2	37	2.8	1945
28	58.1	14.5	70.7	21.5	80	25.7	45.4	7.4	35	1.7	1945
29	58.1	14.5	70.7	21.5	86	30.0	45.5	7.5	38	3.3	1975
30	56.2	13.4	67.3	19.6	85	29.4	45.1	7.3	35	1.7	1975
31											
Monthly	59.0	15.0	71.2	21.8	95	35.0	46.8	8.2	32	0.0	1945

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

1945-1947 1951-1953 1959-1960
YEARS

DECEMBER
MONTH

DAY	MEAN TEMP		MAXIMUM TEMP		MINIMUM TEMP		DATE
	AVERAGE ° F	° C	AVERAGE ° F	° C	AVERAGE ° F	° C	
1	55.7	13.2	68.5	20.3	83	28.3	1977*
2	55.8	13.2	69.0	20.6	82	27.8	1969
3	56.3	13.5	67.8	19.9	77	25.0	1977*
4	55.2	12.9	66.2	19.0	81	27.2	1968
5	55.7	13.2	66.4	19.1	76	24.4	1976
6	54.4	12.4	67.0	19.4	76	24.4	1977
7	54.4	12.4	66.8	19.3	83	28.3	1973
8	54.9	12.7	65.6	18.7	80	26.7	1973
9	55.1	12.8	67.5	19.7	86	30.0	1973
10	54.4	12.4	66.7	19.3	85	29.4	1973
11	54.1	12.3	65.4	18.6	79	26.1	1976
12	53.0	11.7	64.4	18.0	77	25.0	1976
13	52.4	11.3	63.6	17.6	74	23.3	1977
14	51.5	10.8	63.6	17.6	76	24.4	1976
15	53.2	11.8	65.6	18.7	79	26.1	1976
16	54.3	12.4	66.7	19.3	81	27.2	1976
17	54.7	12.6	65.5	18.6	74	23.3	1976
18	53.4	11.9	64.1	17.8	73	22.8	1974*
19	53.5	11.9	64.0	17.8	78	25.6	1973
20	52.8	11.6	64.8	18.2	82	27.8	1972
21	52.7	11.5	63.9	17.7	77	25.0	1976
22	55.0	12.8	64.6	18.1	71	21.7	1976
23	55.0	12.8	65.3	18.5	77	25.0	1967
24	55.2	12.9	64.8	18.2	72	22.2	1967
25	56.2	13.4	65.5	18.6	76	24.4	1972
26	54.2	12.3	64.8	18.2	75	23.9	1976*
27	52.9	11.6	62.7	17.1	74	23.3	1972
28	53.9	12.2	61.9	16.6	81	27.2	1975
29	53.0	11.7	62.1	16.7	75	23.9	1975
30	53.3	11.8	64.6	18.1	76	24.4	1945
31	53.7	12.1	64.5	18.1	82	27.8	1968
Monthly	54.2	12.3	65.3	18.5	86	30.0	1973

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

EXTREME VALUES

MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

93114 STATION NAME: SANTA ANA, CALIFORNIA
 45-47, 51-53, 63, 67-77 YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45			82	79	79	79	84	96	92	96	92	76	
46	79	75	80	85	89	82	86	87	91	92	80	69	92
47	74	80	84	93	90	79	94						
51													
52					94								
53													
63			81	71	98	82	84	87	112	86	84	77	
67			92			82	88	96	94	97	86	82	
68	81	83	83	84	88	86	98	99	96	92	86	82	
69	87	74	83		80	84	88	99					
70	73	83	83	83	92	92	94	93	101	83	82	73	101
71	83	83	80	89	84	84	89	92	102	99	81	70	102
72	80	75	75	81	90	83	97	96	92	94	81	82	97
73	77	75	69	82	96	97	87	92	99	95	83	86	99
74	78	81	75	82	90	88	90	82	92	97	89	78	97
75	83	76	75	73	75	81	91	86	101	88	87	81	101
76	89	82	85	81	84	102	88	96	90	96	95	83	102
77	85	86	77	82	77	81	95	89	96	89	90	83	96
MEAN	80.8	79.4	80.1	81.9	87.1	85.5	90.2	92.1	96.8	92.8	89.8	78.3	98.6
S.D.	4.920	4.166	5.636	5.751	6.984	6.885	4.475	5.266	6.166	4.331	4.840	5.466	3.338
TOTAL OBS.	372	339	434	390	465	450	465	434	390	403	360	372	4874

EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

STATION

STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE
STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE

45-47, 51-53, 63, 67-77

YEARS

WHOLE DEGREES FAHRENHEIT

[illegible]

5723 Exome Values Jan 1969

EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

93114

SANTA ANA, CALIFORNIA

STATION

45-47, 51-53, 63, 67-77

YEARS

WHOLE DEGREES FAHRENHEIT
/BASED ON LESS THAN FULL MONTHS/

[illegible]

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

93114

SANTA ANA, CALIFORNIA

73-77

JAN

05

PSYCHROMETRIC SUMMARY JAN 68

PAGE 1

YEARS

STATION NAME

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL							
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point							
90/ 89															.1			1	1									
88/ 87															.1			1	1									
86/ 85										.1				.2				3	3									
84/ 83										.1								1	1									
82/ 81								.1		.2	.1	.1	.2	.2	.1			6	6									
80/ 79									.1	.2	.2	.2	.1		.1			9	9									
78/ 77										.4	.2	.1						9	9									
76/ 75				.1			.2	.3	.3	.2	.2	.2	.1					15	15									
74/ 73					.1		.1	.2	.3	.2	.3	.2	.2					17	17									
72/ 71						.1	.1	.2	.3	.2	.2	.1	.2					13	13									
70/ 69					.1	.2	.2	.2	1.1	.2	.2	.3	.2					26	26	2								
68/ 67				.1		.8	.6	.1	.3	.3	.2							29	29	1								
66/ 65			.1	.1	.4	.6	.5	.6	.4									33	33	2	1							
64/ 63			.2	.5	.6	1.0	.9	.2	.6	.3								53	53	5								
62/ 61		.1	.2	.7	.7	1.5	.6	.2	.2	.1	.1							56	56	12	1							
60/ 59		.6	.5	1.0	1.2	1.0	.3	.6	.2	.2								70	70	26	4							
58/ 57	.2	1.3	1.6	1.5	1.2	.6	.6	.4	.2	.1								97	97	57	11							
56/ 55	.6	2.2	1.3	1.2	1.6	.9	.6	.6	.2									114	114	96	28							
54/ 53		2.5	2.5	.9	1.1	.2		.4	.1									96	96	109	46							
52/ 51	.2	3.2	2.9	.9	.8	.4	.4	.2										112	112	131	74							
50/ 49		2.6	2.3	1.5	.5	.2												88	88	135	74							
48/ 47	.5	2.6	1.9	.6	.2													72	72	135	121							
46/ 45	.6	3.8	2.8	.8	.2	.1												103	103	129	134							
44/ 43	.5	2.5	1.5	.4	.1													62	62	122	109							
42/ 41	.2	2.3	1.3	.6		.1												55	55	90	105							
40/ 39	.2	1.4	1.5	.6	.2	.1												48	48	67	124							
38/ 37	.2	1.4	.4															24	24	52	92							
36/ 35		.2	.6	.2														15	15	32	89							
34/ 33	.1	.2	.2															6	6	17	47							
32/ 31		.2	.2															6	6	14	48							
30/ 29																				5	30							
28/ 27																				1	29							
26/ 25																					19							
24/ 23																					12							
Element (X)	ΣX																		\bar{X}		Mean No. of Hours with Temperature				Total			
Rel. Hum.																					± 32 F		± 73 F		± 80 F		± 93 F	
Dry Bulb																												
Wet Bulb																												
Dew Point																												

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PSYCHROMETRIC SUMMARY JAN 68

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL						
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Wet Bulb	Dew Point						
86/ 85										.1				.1				2	2							
84/ 83										.1			.1					1	1							
82/ 81										.1		.1	.1					3	3							
80/ 79										.1		.2	.1	.3				6	6							
78/ 77									.1	.4	.1	.1	.1					9	9							
76/ 75									.1	.1	.1	.1	.1					6	6							
74/ 73									.3	.2	.1	.1						12	12							
72/ 71						.4	.2	.1	.6	.4	.4	.1						24	24							
70/ 69					.2	.7	.2	.3	.4	.3	.3	.1						29	29	1						
68/ 67					1.2	.8	.5	.4	.4	.3	.2	.2						24	24	1						
66/ 65			.1		1.2	.8	.5	.2	.6	.2	.2	.2						42	42	1						
64/ 63			.3	1.2	1.1	1.1	.5	.7	.2	.4	.2							62	62	2						
62/ 61		.4	1.0	1.7	1.3	.5	.8	.1	.1	.1								66	66	20						
60/ 59		.6	1.8	2.5	1.0	.5	.5	.1	.1	.1								81	81	24						
58/ 57		2.0	2.6	2.5	.8	.3	.3	.1	.2									94	94	75						
56/ 55	.4	4.2	3.4	1.2	.7	.4	.4	.1	.1									116	116	139						
54/ 53	.2	5.0	2.7	.5	.4	.4	.2											104	104	160						
52/ 51	.4	5.5	2.1	1.5	.4		.3											115	115	166						
50/ 49	.7	4.0	1.1	.6	.3	.1		.1										77	77	134						
48/ 47	.9	3.7	1.6	.4	.4													79	79	117						
46/ 45	.3	3.0	1.2	.8	.4													63	63	79						
44/ 43	.4	1.6	1.0	.8		.1												43	43	69						
42/ 41	.2	1.3	1.1	.3														32	32	43						
40/ 39	.1	1.2	.3	.1														19	19	47						
38/ 37	.1	.8	.3															13	13	34						
36/ 35	.1	.4	.1															6	6	15						
34/ 33																			4	4						
32/ 31																										
30/ 29																										
28/ 27																										
26/ 25																										
24/ 23																										
22/ 21																										
20/ 19																										
Element (X)	ΣX^2																	ΣX		Mean No. of Hours with Temperature					Total	
Rel. Hum.																				≤ 0 F					≥ 93 F	
Dry Bulb																				≤ 32 F						
Wet Bulb																				≥ 67 F						
Dew Point																				≥ 73 F						

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Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 ^o - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
82/ 81																		1	1		
80/ 79												.1	.1					3	3		
78/ 77									.1	.2	.1							6	6		
76/ 75							.2	.1	.1	.1			.1	.1				6	6		
74/ 73						.1		.2	.1	.2								7	7		
72/ 71				.1		.2		.5	.2	.2								12	12		
70/ 69					.2	.2	.3	.1	.1	.2	.2							19	19		
68/ 67					.6	.9	.6	.3	.3	.3	.2							38	38		
66/ 65				.2	1.2	.9	.6	.1	.2	.2	.1	.1						43	43	3	
64/ 63			.1	.3	1.9	1.1	.4	.2	.2	.1								52	52	6	
62/ 61		.7	1.6	2.7	1.8	1.6	.2	.1	.1	.1	.1							93	93	12	1
60/ 59		1.2	2.9	2.3	1.9	.9	.2	.1	.2	.1								111	111	20	
58/ 57		3.1	4.4	2.5	.9	.2	.2	.1	.2	.1								119	119	72	13
56/ 55																		141	141	121	33
54/ 53		3.5	3.9	2.1	.6	.2	.2											129	129	169	69
52/ 51	.6	4.1	2.7	.9	.6	.2	.2	.1										113	113	176	123
50/ 49	.3	4.6	2.3	1.0	.2	.1	.2											108	108	204	168
48/ 47	.2	3.0	2.1	.6	.2													76	76	143	167
46/ 45	.1	2.9	2.1	.6														70	70	91	151
44/ 43	.2	1.9	.8	.3	.1													41	41	94	133
42/ 41	.5	1.2	1.4	.2														40	40	62	102
40/ 39	.1	.3	.2	.2														9	9	37	86
38/ 37		.2																2	2	22	47
36/ 35																		1	1	6	48
34/ 33																				2	26
32/ 31																				11	11
30/ 29																					17
28/ 27																					15
26/ 25																					8
24/ 23																					5
22/ 21																					3
20/ 19																					7
18/ 17																					1
16/ 15																					3
Element (X)	ΣX											ΣX^2		Mean No. of Hours with Temperature				Total			
Rel. Hum.														≥ 0 F				≥ 80 F			
Dry Bulb														≥ 67 F				≥ 93 F			
Wet Bulb																					
Dew Point																					

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STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE
STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE

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Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
82/ 81										.1	.1	.1						3	3		
80/ 79										.2	.1	.2	.1					10	10		
78/ 77						.1		.2	.1	.2	.2	.2	.1	.1				12	12		
76/ 75							.3	.2	.2	.2	.2	.2	.2	.2				18	18		
74/ 73						.2	.2	.4	.3	.2	.2	.1	.1					18	18		
72/ 71				.1		.7	.5	.4		.2	.2	.2						27	27		
70/ 69			.1		.3	1.7	.9	.4		.1	.1							44	44		
68/ 67				.1	.1	.8	1.2	.7	.5	.2	.1							46	46	2	
66/ 65					.2	2.1	2.0	1.1	.2	.2								69	69	3	
64/ 63			.2	.2	.7	2.4	2.3	.5	.2	.2								82	82	11	2
62/ 61			.6	2.8	2.6	1.2	.1	.2		.1								91	91	29	1
60/ 59		.2	2.2	3.6	2.1	.5	.1	.1	.1									106	106	63	3
58/ 57		.8	3.7	2.5	.7	.2	.2	.1										99	99	99	10
56/ 55		4.2	4.2	2.5	.4	.2	.1											138	138	168	40
54/ 53	.2	3.0	4.4	1.2	.3	.2												112	112	216	108
52/ 51	.7	4.1	4.7	.6	.2													124	124	176	183
50/ 49	.2	5.0	3.1	.7	.2													111	111	169	177
48/ 47	.1	2.6	1.1	.2														48	48	122	193
46/ 45		1.3	.2	.2														21	21	76	184
44/ 43	.1	.3	.6															12	12	40	117
42/ 41		.3	.1	.1														6	6	11	66
40/ 39	.1	.1																2	2	13	30
38/ 37		.1																1	1	1	27
36/ 35																				1	13
34/ 33																					4
32/ 31																					10
30/ 29																					3
28/ 27																					5
26/ 25																					7
24/ 23																					2
22/ 21																					1
20/ 19																					1
18/ 17																					
Element (X)	Σ X ²		Σ X		X̄		σ _x		No. Obs.		Mean No. of Hours with Temperature						Total				
Rel. Hum.																					
Dry Bulb																					
Wet Bulb																					
Dew Point																					

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HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	TOTAL		
	WET BULB TEMPERATURE DEPRESSION (F)																			Dry Bulb	Wet Bulb	Dew Point
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31					
94/ 93																		1	1			
90/ 89																		1	1			
86/ 85																		1	1			
84/ 83																		2	2			
82/ 81																		7	7			
80/ 79																		1	1			
78/ 77																		7	7			
76/ 75																		10	10			
74/ 73																		35	35			
72/ 71																		42	42			
70/ 69																		72	72		2	
68/ 67																		75	75		5	
66/ 65																		104	104		20	
64/ 63																		112	112		45	
62/ 61																		158	158		83	
60/ 59																		221	221		183	
58/ 57																		176	176		290	
56/ 55																		94	94		272	
54/ 53																		66	66		162	
52/ 51																		27	27		87	
50/ 49																		13	13		53	
48/ 47																		9	9		18	
46/ 45																		2	2		13	
44/ 43																		3	3		5	
42/ 41																					16	
40/ 39																					6	
38/ 37																					4	
36/ 35																					1	
TOTAL	1.921	527.9	17.4	12.8	12.3	3.6	1.3	.4	.4	.4	.1	.2		.1				1239	1239	1239	1239	

Element (X)	ΣX ²	ΣX	X̄	s _x	No. Obs.	Mean No. of Hours with Temperature								Total
Rel. Hum.	7011060	91600	73.9	13.894	1239	≥ 73 F	≥ 67 F	≥ 32 F	≥ 0 F	≥ 80 F	≥ 93 F	Total		
Dry Bulb	4757419	76387	61.7	6.226	1239	152.5	39.0	7.2	.6			744.0		
Wet Bulb	3964153	69913	56.4	3.935	1239	4.2						744.0		
Dew Point	3452890	65208	52.6	4.120	1239							744.0		

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Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL											
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 -	12	13 -	14	15 -	16	17 -	18	19 -	20	21 -	22	23 -	24	25 -	26	27 -	28	29 -	30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
102/101																												1	1		
98/ 97																												1	1		
96/ 95																												2	2		
94/ 93																			.1								2	2			
92/ 91																		.2									6	6			
90/ 89																	.3	.2									7	7			
88/ 87																	.1	.5									8	8			
86/ 85																	.2	.4	.2								10	10			
84/ 83					.1												.2	.7									7	7			
82/ 81																	.2	.2									18	18			
80/ 79					.1	.4											.5	.3	.1								23	23			
78/ 77					.2	.7	1.2										.2	.2									23	28			
76/ 75				.2	.6	2.7	.7	.2									.2	.2									55	55	2		
74/ 73				.2	2.2	2.2	.7	.2									.2	.2									66	66	2		
72/ 71			.1	1.0	3.1	2.7	.2	.1																			85	85	9	1	
70/ 69			.3	1.8	3.5	1.3																					84	84	32	1	
68/ 67		.2	1.4	2.2	2.2	.6																					79	79	65	3	
66/ 65		1.0	3.1	3.5	.8		.1																				102	102	112	13	
64/ 63	.1	3.7	6.8	3.3	.7																						176	176	135	47	
62/ 61	.2	7.3	8.2	1.4	.2																						207	207	227	145	
60/ 59	.8	6.1	3.3	.6																							130	130	285	226	
58/ 57	.5	3.2	1.7																								65	65	195	324	
56/ 55	.2	1.7	.2																								25	25	91	241	
54/ 53	.1	.7	.1																								11	11	36	108	
52/ 51	.1		.1																								2	2	7	67	
50/ 49																													2	2	17
48/ 47																															4
46/ 45																															3
TOTAL	1.923.925.4	14.2	13.7	10.6	3.5	2.3	1.3	.8	1.1	.2	.1	.2																1200	1200	1200	1200

Element (X)	Σ X ²	Σ X	X̄	σ _x	No. Obs.	Mean No. of Hours with Temperature							Total																		
						≥ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																				
Ref. Hum.	6961602	89752	74.8	14.971	1200																										
Dry Bulb	5369168	79760	66.5	7.519	1200																										
Wet Bulb	4463470	73034	60.9	3.927	1200																										
Dew Point	3972317	68929	57.4	3.289	1200																										

Mean No. of Hours with Temperature

No. Obs.

σ_x

\bar{x}

$\sum x$

$\sum x^2$

Element (X)

	≥ 80 F	≥ 73 F	≥ 67 F	≥ 63 F	≥ 50 F	Total
Rel. Hum.	45.6	289.2	140.4	3.6		720.0
Dry Bulb		66.0	2.4			720.0
Wet Bulb		3.0	.6			720.0
Dew Point						

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Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
94/ 93										.1								1	1			
92/ 91									.1			.1						2	2			
90/ 89								.1										1	1			
88/ 87								.2			.1							3	3			
86/ 85							.1	.3	.2	.1								9	9			
84/ 83						.2	.5	.4			.1							15	15			
82/ 81					.1	.6	1.5	.9	.1									38	38			
80/ 79			.1		.2	1.9	2.7	.4	.1									66	66			
78/ 77			.2	.2	1.5	3.2	2.3	.4										96	96			
76/ 75		.2	.1	.9	2.0	3.3	.6											88	88	5		
74/ 73		.1	.3	1.6	3.1	2.2	.4											95	95	17	3	
72/ 71	.1	.2	1.2	2.4	2.2	.4												81	81	29	4	
70/ 69		1.1	3.3	3.2	.8	.1												106	106	97	11	
68/ 67	.2	1.8	7.2	3.8	.2													163	163	190	53	
66/ 65		5.1	7.3	1.7														175	175	229	94	
64/ 63		6.0	4.7	.2														135	135	253	207	
62/ 61		4.4	2.0	.1														80	80	212	334	
60/ 59	.2	2.7	1.0	.1														51	51	116	257	
58/ 57	.1	1.5	.4															24	24	59	186	
56/ 55	.2	.2																5	5	21	67	
54/ 53		.4																5	5	9	15	
52/ 51	.1																	1	1	1	9	
TOTAL	.923	727.8	14.1	10.1	11.9	7.9	2.7	.5	.2	.2	.1							1240	1240	1240	1240	

Element (X)	ΣX ²	ΣX	Σ̄	σ _x	No. Obs.	Mean No. of Hours with Temperature							Total
Rel. Hum.	7383602	94202	76.0	13.539	1240	≥ 73 F	≥ 70 F	≥ 67 F	≥ 64 F	≥ 60 F	≥ 50 F	Total	
Dry Bulb	6049150	86210	69.5	6.691	1240	458.4	248.4	60.0	.6			744.0	
Wet Bulb	5112074	79476	64.1	3.830	1240	202.8	13.2					744.0	
Dew Point	4630654	75664	61.0	3.323	1240	42.6	4.2					744.0	

Mean No. of Hours with Temperature

No. Obs.

σ_x

\bar{x}

$\sum x$

$\sum x^2$

Element (X)

Element (X)	$\sum x$	$\sum x^2$	σ_x	No. Obs.	Mean No. of Hours with Temperature	Total
Rel. Hum.	94202	7383602	13.539	1240	≥ 73 F	744.0
Dry Bulb	86210	6049150	6.691	1240	≥ 80 F	744.0
Wet Bulb	79476	5112074	3.830	1240	≥ 93 F	744.0
Dew Point	75664	4630654	3.323	1240	≥ 93 F	744.0

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PSYCHROMETRIC SUMMARY

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05

PSYCHROMETRIC SUMMARY

JAN 68

001.8

001.8

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
100/ 99																.1	.1	2	2			
98/ 97																	.1	1	1			
96/ 95																	.3	3	3			
94/ 93																.1	.1	3	3			
92/ 91											.1	.1	.2	.1	.1	.1		7	7			
90/ 89											.1	.1	.1	.1	.1	.1		7	7			
88/ 87											.2	.1	.2	.1	.1			8	8			
86/ 85											.3	.2	.3	.1	.1			13	13			
84/ 83											.8	.6	.2	.1				19	19			
82/ 81											.5	.3	.2			.1		27	27			
80/ 79										.2	1.6	.6	.3					32	32			
78/ 77										.2	1.4	1.2	.3	.1	.1			56	56			
76/ 75										.1	.3	.3	.1					68	68	3		
74/ 73										.1	.3	.3						90	90	15		
72/ 71										.3	1.4	2.5	2.9	.6	.1	.1	.1	95	95	33	3	
70/ 69										1.4	4.4	5.5	1.3	.1	.1			153	153	79	10	
68/ 67										2.8	6.5	2.6	.5	.2				151	151	135	39	
66/ 65										.2	3.6	7.5	1.1	.2				153	153	231	124	
64/ 63										.1	5.7	3.8	.2					117	117	274	168	
62/ 61										.3	4.5	1.1	.3					74	74	203	322	
60/ 59										.3	3.9	1.4	.2	.1				71	71	104	254	
58/ 57										.1	1.4	.5						24	24	53	133	
56/ 55										.2	.9	.1	.1					16	16	36	52	
54/ 53										.1	.1		.1					4	4	18	36	
52/ 51										.1				.1				2	2	7	10	
50/ 49										.1								1	1	1	8	
48/ 47																				3	8	
46/ 45																				2	8	
44/ 43																					3	
42/ 41																					2	
40/ 39																					7	
38/ 37																					1	
36/ 35																					3	
34/ 33																					1	
Element (X)	ΣX ²											ΣX	σ _x	No. Obs.	Mean No. of Hours with Temperature				Total			
Rel. Hum.															≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F		
Dry Bulb																						
Wet Bulb																						
Dew Point																						

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PSYCHROMETRIC SUMMARY

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Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL				
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
98/ 97																	.1	1	1				
96/ 95																	.2	2	2				
94/ 93																	.1	1	1				
92/ 91																	.1	6	6				
90/ 89																	.2	4	4				
88/ 87																	.1	7	7				
86/ 85																	.1	8	8				
84/ 83																	.1	11	11				
82/ 81																	.1	18	18				
80/ 79																	.2	26	26				
78/ 77																	.2	28	28				
76/ 75																	.2	44	44				
74/ 73																	.1	48	48				
72/ 71																	.3	74	74				
70/ 69																	.2	77	77				
68/ 67																	.1	114	114				
66/ 65																	.2	129	129				
64/ 63																	.1	126	126				
62/ 61																	.2	133	133				
60/ 59																	.2	121	121				
58/ 57																	.1	77	77				
56/ 55																	.2	58	58				
54/ 53																	.1	35	35				
52/ 51																	.2	48	48				
50/ 49																	.1	25	25				
48/ 47																	.4	10	10				
46/ 45																	.2	2	2				
44/ 43																	.1	3	3				
42/ 41																	.2						
40/ 39																	.1						
38/ 37																	.2	3	3				
36/ 35																	.1	1	1				
34/ 33																	.2	2	2				
32/ 31																	.1						
Element (X)	ΣX^2	ΣX		\bar{X}		σ_x		No. Obs.		Mean No. of Hours with Temperature							≥ 0 F	≥ 32 F	≥ 67 F	≥ 80 F	≥ 93 F	Total	
Rel. Hum.																							
Dry Bulb																							
Wet Bulb																							
Dew Point																							

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PSYCHROMETRIC SUMMARY

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PSYCHROMETRIC SUMMARY

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HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
84/ 83													.1	.1				2	2		
82/ 81											.1	.2	.1	.1				4	4		
80/ 79									.2		.2	.2	.2	.2				10	10		
78/ 77									.1	.1	.2	.2	.2	.1				5	5		
76/ 75									.2	.2	.2	.2	.2					11	11		
74/ 73					.1		.2	.6	.2	.3	.1	.5						23	23		
72/ 71					.1	.2	.2	.2	.5	.2	.1	.1						19	19		
70/ 69				.1	.3	.2	.6	.6	.3	.5	.5							38	38		
68/ 67			.1	.2	.6	1.1	.5	.2	.6	.1	.2							44	44		
66/ 65			.4	.6	.9	1.0	.2	.3	.5	.4	.2							56	56		
64/ 63	.1	.4	.3	.7	1.0	1.0	.4	.2	.2									54	54	3	1
62/ 61	.6	.5	.5	1.5	1.5	1.0	.1	.5	.2		.1							77	77	9	15
60/ 59	.2	1.6	2.2	1.3	.6	.6	.5	.2	.2									93	93	35	14
58/ 57	.2	1.5	2.3	1.7	.5	.6	.3	.3	.2									95	95	59	35
56/ 55	.2	2.1	2.1	.6	.6	.4	.2	.2										79	79	130	45
54/ 53	.5	4.0	3.1	.7	.5	.1	.6	.2										119	119	115	77
52/ 51	.5	3.6	1.5	.9	.9	.1	.8											102	102	152	96
50/ 49	.4	3.0	1.5	1.0	.5	.3	.2											85	85	121	150
48/ 47	.6	3.5	1.7	1.0	.3	.2	.2											94	94	116	132
46/ 45	.4	2.0	1.2	.5	.3													57	57	93	95
44/ 43	.2	3.2	1.0	.7														65	65	83	88
42/ 41	.6	1.7	.6	.4														40	40	86	77
40/ 39	.3	2.2	1.0	.4														49	49	64	93
38/ 37		.8	.3															14	14	47	68
36/ 35		.2																3	3	25	69
34/ 33		.1	.1															2	2	9	45
32/ 31																				1	30
30/ 29																				1	24
28/ 27																					27
26/ 25																					18
24/ 23																					18
22/ 21																					5
20/ 19																					8
18/ 17																					3
Element (X)	Σ X																Σ X		Mean No. of Hours with Temperature		
Rel. Hum.																			≥ 80 F		
Dry Bulb																			≥ 73 F		
Wet Bulb																			≥ 67 F		
Dew Point																			≤ 32 F		
																			≤ 0 F		
																			≥ 93 F		
																			Total		

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05 PSYCHROMETRIC SUMMARY JAN 68

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	D.B./W.B.	Dry Bulb	Wet Bulb	TOTAL	Dew Point																										
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																																	
102/101																																		1	1																														
100/99																																	2	2																															
98/97																																	3	3																															
96/95																																	9	9																															
94/93																																	9	9																															
92/91																																	23	23																															
90/89																																	28	28																															
88/87																																	48	48																															
86/85																																	66	66																															
84/83																																	96	96																															
82/81																																	178	178																															
80/79																																	265	265																															
78/77																																	349	349	1																														
76/75																																	432	432	12																														
74/73																																	545	545	55	4																													
72/71																																	614	614	111	8																													
70/69																																	794	794	328	32																													
68/67																																	951	951	642	126																													
66/65																																	1143	1143	976	343																													
64/63																																	1203	1203	1198	764																													
62/61																																	1182	1182	1307	1347																													
60/59																																	1206	1206	1306	1288																													
58/57																																	979	979	1336	1233																													
56/55																																	874	874	1341	1205																													
54/53																																	768	768	1200	1059																													
52/51																																	733	733	1058	1066																													
50/49																																	592	592	983	1075																													
48/47																																	446	446	785	1005																													
46/45																																	370	370	558	858																													
44/43																																	271	271	490	690																													
42/41																																	183	183	334	544																													
40/39																																	141	141	264	472																													
38/37																																	60	60	173	337																													
36/35																																	26	26	89	324																													
Element (X)	ΣX																\bar{X}		σ_x														No. Obs.		Mean No. of Hours with Temperature														Total																
Rel. Hum.																																																																	
Dry Bulb																																																																	
Wet Bulb																																																																	
Dew Point																																																																	

PSYCHROMETRIC SUMMARY

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PSYCHROMETRIC SUMMARY

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Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
34/ 33	.0	.0	.0															8	8	34	212
32/ 31		.0	.0															6	6	16	148
30/ 29																				6	118
28/ 27																				1	104
26/ 25																					70
24/ 23																					53
22/ 21																					19
20/ 19																					35
18/ 17																					22
16/ 15																					16
14/ 13																					12
12/ 11																					7
10/ 9																					2
8/ 7																					2
6/ 5																					2
4/ 3																					2
TOTAL	2.325	.024	.314	.211	.1	9.4	4.7	2.6	2.0	1.2	.9	.7	.3	.3	.1	.1	.1	14604	14604	14604	14604

Element (X)	ΣX ²	ΣX	X̄	σ _x	No. Obs.	Mean No. of Hours with Temperature							Total
Rel. Hum.	81324158	1057090	72.4	18.145	14604	≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total	
Dry Bulb	56805430	898730	61.5	10.126	14604		3,626	48.5	1232.7	356.0	14.4	8760.0	
Wet Bulb	46484539	815575	55.8	8.014	14604		13.8	689.8	40.8			8760.0	
Dew Point	39851339	749839	51.3	9.618	14604		246.8	102.1	6.6			8760.0	

Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	81324158	1057090	72.4	18.145	14604							Total
Dry Bulb	56805430	898730	61.5	10.126	14604							8760.0
Wet Bulb	46484539	815575	55.8	8.014	14604							8760.0
Dew Point	39851339	749839	51.3	9.618	14604							8760.0

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MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

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HRS.(LST.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN 47.8 S. D. 6.507 TOTAL OBS 155	MEAN 49.4 S. D. 4.534 TOTAL OBS 155	MEAN 49.9 S. D. 4.386 TOTAL OBS 155	MEAN 51.7 S. D. 3.706 TOTAL OBS 150	MEAN 56.8 S. D. 3.621 TOTAL OBS 155	MEAN 60.4 S. D. 2.941 TOTAL OBS 150	MEAN 64.3 S. D. 3.068 TOTAL OBS 155	MEAN 63.6 S. D. 3.714 TOTAL OBS 155	MEAN 64.1 S. D. 4.404 TOTAL OBS 149	MEAN 58.8 S. D. 5.095 TOTAL OBS 155	MEAN 52.7 S. D. 5.869 TOTAL OBS 150	MEAN 49.3 S. D. 6.050 TOTAL OBS 155	MEAN 55.8 S. D. 7.631 TOTAL OBS 1825
04	MEAN 46.0 S. D. 5.999 TOTAL OBS 155	MEAN 47.4 S. D. 5.355 TOTAL OBS 141	MEAN 48.4 S. D. 5.175 TOTAL OBS 155	MEAN 50.5 S. D. 4.316 TOTAL OBS 150	MEAN 55.8 S. D. 3.946 TOTAL OBS 155	MEAN 59.6 S. D. 2.714 TOTAL OBS 150	MEAN 63.4 S. D. 3.122 TOTAL OBS 155	MEAN 63.4 S. D. 3.486 TOTAL OBS 155	MEAN 63.2 S. D. 4.255 TOTAL OBS 149	MEAN 57.6 S. D. 5.675 TOTAL OBS 155	MEAN 50.6 S. D. 6.122 TOTAL OBS 150	MEAN 47.7 S. D. 6.305 TOTAL OBS 155	MEAN 54.5 S. D. 8.113 TOTAL OBS 1825
07	MEAN 45.3 S. D. 7.170 TOTAL OBS 155	MEAN 47.1 S. D. 5.328 TOTAL OBS 141	MEAN 48.7 S. D. 4.783 TOTAL OBS 155	MEAN 52.9 S. D. 3.927 TOTAL OBS 150	MEAN 58.3 S. D. 2.905 TOTAL OBS 155	MEAN 62.5 S. D. 3.145 TOTAL OBS 150	MEAN 65.9 S. D. 3.092 TOTAL OBS 155	MEAN 65.0 S. D. 3.164 TOTAL OBS 155	MEAN 64.5 S. D. 3.555 TOTAL OBS 150	MEAN 58.3 S. D. 5.287 TOTAL OBS 155	MEAN 50.1 S. D. 6.285 TOTAL OBS 150	MEAN 46.7 S. D. 6.434 TOTAL OBS 155	MEAN 55.5 S. D. 8.920 TOTAL OBS 1826
10	MEAN 56.9 S. D. 5.897 TOTAL OBS 155	MEAN 59.1 S. D. 4.858 TOTAL OBS 141	MEAN 59.3 S. D. 4.554 TOTAL OBS 155	MEAN 63.4 S. D. 5.306 TOTAL OBS 150	MEAN 65.5 S. D. 4.556 TOTAL OBS 155	MEAN 70.9 S. D. 6.383 TOTAL OBS 150	MEAN 74.8 S. D. 4.728 TOTAL OBS 155	MEAN 74.0 S. D. 3.990 TOTAL OBS 155	MEAN 73.4 S. D. 6.127 TOTAL OBS 150	MEAN 69.9 S. D. 5.626 TOTAL OBS 155	MEAN 64.7 S. D. 7.314 TOTAL OBS 150	MEAN 59.2 S. D. 5.704 TOTAL OBS 155	MEAN 66.0 S. D. 8.291 TOTAL OBS 1826
13	MEAN 65.2 S. D. 8.470 TOTAL OBS 155	MEAN 66.0 S. D. 6.909 TOTAL OBS 141	MEAN 63.8 S. D. 6.271 TOTAL OBS 155	MEAN 67.2 S. D. 6.179 TOTAL OBS 150	MEAN 68.9 S. D. 5.337 TOTAL OBS 155	MEAN 75.1 S. D. 6.910 TOTAL OBS 150	MEAN 78.4 S. D. 4.592 TOTAL OBS 155	MEAN 78.4 S. D. 3.876 TOTAL OBS 155	MEAN 78.0 S. D. 6.344 TOTAL OBS 150	MEAN 75.7 S. D. 6.914 TOTAL OBS 155	MEAN 72.4 S. D. 8.604 TOTAL OBS 150	MEAN 67.0 S. D. 6.646 TOTAL OBS 155	MEAN 71.4 S. D. 8.442 TOTAL OBS 1826
16	MEAN 63.4 S. D. 7.769 TOTAL OBS 155	MEAN 64.4 S. D. 6.318 TOTAL OBS 141	MEAN 62.3 S. D. 5.419 TOTAL OBS 155	MEAN 65.8 S. D. 5.962 TOTAL OBS 150	MEAN 67.7 S. D. 4.888 TOTAL OBS 155	MEAN 73.6 S. D. 6.488 TOTAL OBS 150	MEAN 76.9 S. D. 4.500 TOTAL OBS 155	MEAN 76.8 S. D. 3.661 TOTAL OBS 155	MEAN 75.6 S. D. 5.939 TOTAL OBS 150	MEAN 72.4 S. D. 6.247 TOTAL OBS 155	MEAN 68.7 S. D. 7.780 TOTAL OBS 150	MEAN 64.5 S. D. 6.127 TOTAL OBS 155	MEAN 69.4 S. D. 7.973 TOTAL OBS 1826
19	MEAN 54.9 S. D. 6.145 TOTAL OBS 155	MEAN 56.9 S. D. 3.691 TOTAL OBS 141	MEAN 56.7 S. D. 3.830 TOTAL OBS 155	MEAN 58.9 S. D. 4.196 TOTAL OBS 150	MEAN 61.7 S. D. 3.208 TOTAL OBS 155	MEAN 66.9 S. D. 5.264 TOTAL OBS 150	MEAN 69.9 S. D. 3.652 TOTAL OBS 155	MEAN 69.3 S. D. 3.126 TOTAL OBS 155	MEAN 68.9 S. D. 4.688 TOTAL OBS 150	MEAN 65.0 S. D. 3.984 TOTAL OBS 155	MEAN 59.4 S. D. 5.724 TOTAL OBS 150	MEAN 55.5 S. D. 4.885 TOTAL OBS 155	MEAN 62.0 S. D. 7.067 TOTAL OBS 1826
22	MEAN 50.2 S. D. 5.908 TOTAL OBS 155	MEAN 51.9 S. D. 4.146 TOTAL OBS 141	MEAN 52.0 S. D. 3.589 TOTAL OBS 155	MEAN 54.6 S. D. 3.966 TOTAL OBS 150	MEAN 58.6 S. D. 2.835 TOTAL OBS 154	MEAN 62.8 S. D. 3.359 TOTAL OBS 150	MEAN 66.2 S. D. 2.957 TOTAL OBS 155	MEAN 65.7 S. D. 3.114 TOTAL OBS 155	MEAN 65.8 S. D. 4.149 TOTAL OBS 149	MEAN 60.4 S. D. 4.696 TOTAL OBS 155	MEAN 54.6 S. D. 5.895 TOTAL OBS 150	MEAN 51.3 S. D. 5.553 TOTAL OBS 155	MEAN 57.9 S. D. 7.297 TOTAL OBS 1826
ALL HOURS	MEAN 53.7 S. D. 9.881 TOTAL OBS 1240	MEAN 55.3 S. D. 8.723 TOTAL OBS 1128	MEAN 55.1 S. D. 7.543 TOTAL OBS 1240	MEAN 58.1 S. D. 7.820 TOTAL OBS 1200	MEAN 61.7 S. D. 6.227 TOTAL OBS 1239	MEAN 66.5 S. D. 7.519 TOTAL OBS 1200	MEAN 70.0 S. D. 6.723 TOTAL OBS 1240	MEAN 69.5 S. D. 6.691 TOTAL OBS 1240	MEAN 69.2 S. D. 7.367 TOTAL OBS 1197	MEAN 64.8 S. D. 8.603 TOTAL OBS 1240	MEAN 59.1 S. D. 10.478 TOTAL OBS 1200	MEAN 55.1 S. D. 9.401 TOTAL OBS 1240	MEAN 61.5 S. D. 10.127 TOTAL OBS 14604

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MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

93114

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HRS.(L.S.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN	44.2	46.5	47.0	48.7	54.0	61.6	61.1	61.2	56.0	49.2	46.0	52.8
	S. D.	5.610	4.770	4.505	3.674	3.613	2.620	3.396	3.980	5.323	5.131	5.490	7.663
	TOTAL OBS	155	141	155	150	155	150	155	149	155	150	155	1825
04	MEAN	42.8	44.8	45.7	48.0	53.3	60.9	61.1	60.6	55.0	47.4	44.5	51.8
	S. D.	5.695	5.340	5.151	4.096	3.856	2.677	3.182	4.169	5.989	5.699	6.087	8.217
	TOTAL OBS	155	141	155	150	155	150	155	149	155	150	155	1825
07	MEAN	42.0	44.4	45.8	49.6	55.0	62.5	62.2	61.5	55.5	46.8	43.6	52.4
	S. D.	6.279	5.368	5.061	3.579	2.919	2.482	2.758	3.502	5.586	5.885	6.322	8.798
	TOTAL OBS	155	141	155	150	155	150	155	150	155	150	155	1826
10	MEAN	49.5	52.2	52.2	54.8	58.3	66.6	66.3	65.6	61.6	55.7	51.9	58.2
	S. D.	4.457	3.067	3.712	3.349	3.227	2.624	2.606	3.042	3.521	4.337	4.403	6.951
	TOTAL OBS	155	141	155	150	155	155	155	150	155	150	155	1826
13	MEAN	53.6	55.4	54.1	56.6	59.8	67.9	67.9	67.3	64.0	59.1	55.9	60.6
	S. D.	5.133	3.863	4.337	3.968	3.408	2.706	2.644	2.951	4.111	5.023	4.403	6.605
	TOTAL OBS	155	141	155	150	155	155	155	150	155	150	155	1826
16	MEAN	53.1	55.0	53.4	55.9	59.1	67.1	67.3	66.4	62.6	58.2	55.3	59.8
	S. D.	5.006	3.404	4.004	3.778	3.245	2.630	2.582	3.110	3.929	4.965	4.115	6.424
	TOTAL OBS	155	141	155	150	155	155	155	150	155	150	155	1826
19	MEAN	49.6	52.2	51.4	53.1	56.7	64.2	64.3	63.8	60.2	54.2	50.9	56.8
	S. D.	4.712	3.146	3.332	2.959	2.590	2.152	2.552	2.607	3.895	4.884	4.737	6.423
	TOTAL OBS	155	141	155	150	155	155	155	150	155	150	155	1826
22	MEAN	46.3	48.6	48.4	50.9	55.2	62.8	62.7	62.4	57.2	50.5	47.6	54.4
	S. D.	5.019	4.149	3.720	3.313	2.810	2.306	2.741	3.453	4.738	4.889	5.390	7.228
	TOTAL OBS	155	141	155	150	154	155	155	149	155	150	155	1824
ALL HOURS	MEAN	47.6	49.9	49.8	52.2	56.4	64.2	64.1	63.6	59.0	52.7	49.5	55.8
	S. D.	6.738	5.907	5.333	4.771	3.936	3.555	3.830	4.141	5.735	6.801	6.811	8.014
	TOTAL OBS	1240	1128	1240	1200	1239	1240	1240	1197	1240	1240	1240	14604

MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

93114 SANTA ANA, CALIFORNIA

73-77

STATION NAME

YEARS

HRS.(LST.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN 39.6 S. D. 8.434 TOTAL OBS 155	43.1 7.482 141	44.0 6.330 155	45.9 5.035 150	51.8 4.371 155	56.1 3.116 150	60.0 2.730 155	59.6 3.470 155	59.3 5.282 149	53.7 6.965 155	45.6 7.196 150	42.0 8.279 155	50.1 9.392 1825
04	MEAN 38.7 S. D. 8.113 TOTAL OBS 155	41.6 8.035 141	42.8 7.027 155	45.5 5.320 150	51.3 4.453 155	55.9 3.095 150	59.4 2.757 155	59.6 3.279 155	59.0 5.033 149	52.8 7.584 155	44.0 7.288 150	40.7 8.727 155	49.3 9.872 1825
07	MEAN 37.5 S. D. 8.594 TOTAL OBS 155	41.3 7.659 141	42.6 7.687 155	46.4 5.319 150	52.5 3.875 155	57.1 2.682 150	60.6 2.810 155	60.5 2.983 155	59.6 4.445 150	53.1 7.263 155	43.3 8.052 150	39.6 8.918 155	49.5 10.435 1826
10	MEAN 41.8 S. D. 8.567 TOTAL OBS 155	45.7 7.948 141	45.6 7.724 155	47.7 5.732 150	53.2 4.151 155	58.5 3.319 150	62.2 2.668 155	61.9 3.029 155	61.0 5.025 150	55.8 7.511 155	48.1 8.568 150	44.8 8.644 155	52.2 9.634 1826
13	MEAN 42.8 S. D. 9.183 TOTAL OBS 155	46.2 8.694 141	45.5 8.106 155	48.0 7.005 150	53.5 4.198 155	58.5 3.519 150	62.3 3.134 155	62.3 3.269 155	61.4 4.817 150	56.3 8.511 155	48.4 9.863 150	46.1 9.265 155	52.7 9.937 1826
16	MEAN 43.7 S. D. 8.428 TOTAL OBS 155	46.9 7.777 141	45.2 7.972 155	47.6 7.058 150	53.1 4.267 155	58.3 3.383 150	61.8 3.282 155	62.0 3.485 155	61.1 5.245 150	55.9 7.627 155	49.8 8.845 150	47.3 8.301 155	52.8 9.344 1826
19	MEAN 44.3 S. D. 7.667 TOTAL OBS 155	47.9 6.433 141	46.7 5.540 155	48.1 5.405 150	53.0 3.547 155	57.8 2.962 150	61.1 2.407 155	61.3 2.914 155	60.6 4.583 150	56.7 6.439 155	49.8 7.995 150	46.4 8.325 155	52.8 8.357 1826
22	MEAN 42.0 S. D. 7.574 TOTAL OBS 155	45.3 6.742 141	44.8 6.395 155	47.7 4.849 150	52.6 3.640 154	57.3 3.040 150	60.7 2.577 155	60.8 2.961 155	60.3 4.586 149	54.8 6.062 155	46.5 7.841 150	43.3 8.825 155	51.4 9.031 1824
ALL HOURS	MEAN 41.3 S. D. 8.620 TOTAL OBS 1240	44.7 7.948 1128	44.7 7.256 1240	47.1 5.832 1200	52.6 4.121 1239	57.4 3.290 1200	61.0 2.964 1240	61.0 3.324 1240	60.3 4.945 1197	54.9 7.399 1240	46.9 8.610 1200	43.8 9.040 1240	51.3 9.619 14604

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5706 RELATIVE HUMIDITY JAN 68

FEB
MONTH

FEB
MONTH

73-77

PERIOD

SANTA ANA, CALIFORNIA

STATION NAME

93114
TATION

STATION

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	01	100.0	99.3	98.6	97.2	95.0	87.9	78.0	60.3	36.9	81.1	141
	04	100.0	98.6	97.9	96.5	95.0	92.2	84.4	66.7	39.0	82.4	141
	07	100.0	99.3	99.3	97.9	94.3	88.7	83.0	66.7	41.8	82.2	141
	10	100.0	97.2	92.2	85.8	75.2	63.8	47.5	25.5	9.9	65.2	141
	13	100.0	93.6	80.9	70.9	56.7	39.0	24.8	11.3	1.4	53.5	141
	16	100.0	97.2	88.7	75.9	62.4	46.8	24.1	14.9	5.7	57.2	141
	19	100.0	99.3	97.2	95.0	90.8	82.3	72.3	41.8	12.1	74.2	141
	22	100.0	99.3	98.6	97.2	93.6	89.4	79.4	57.4	26.2	80.0	141
TOTALS		100.0	98.0	94.2	89.6	82.0	73.8	61.7	43.1	21.6	72.0	1128

RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

MAR
MONTH

73-77
PERIOD

93114 SANTA ANA, CALIFORNIA
STATION NAME

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	01	100.0	99.4	99.4	99.4	98.1	92.9	84.5	56.8	23.2	81.3	155
	04	100.0	100.0	98.7	97.4	96.1	92.9	86.3	63.2	31.6	82.3	155
	07	100.0	99.4	98.1	96.8	96.8	93.5	88.4	58.7	27.1	81.4	155
	10	99.4	98.7	95.5	89.0	78.7	58.7	38.7	16.8	2.6	63.4	155
	13	100.0	97.4	87.7	78.7	65.2	36.8	13.5	5.8	2.6	54.5	155
	16	100.0	96.1	90.3	85.2	70.3	47.1	16.1	3.9		56.4	155
	19	100.0	100.0	98.7	98.1	92.3	80.0	58.7	20.0	3.2	70.8	155
	22	99.4	99.4	99.4	98.1	95.5	92.9	77.4	45.8	10.3	77.9	155
TOTALS		99.9	98.8	96.0	92.8	86.6	74.4	58.0	33.9	12.6	71.0	1240

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RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

APR
MONTH

73-77
PERIOD

SANTA ANA, CALIFORNIA
STATION NAME

93114
STATION

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	01	100.0	100.0	99.3	99.3	98.7	96.0	88.0	58.7	17.3	81.4	150
	04	100.0	100.0	99.3	98.7	98.7	97.3	94.7	64.7	24.7	83.7	150
	07	100.0	99.3	98.7	97.3	96.7	95.3	88.7	46.7	13.3	79.6	150
	10	100.0	98.7	95.3	89.3	78.0	50.0	14.7	6.7	.7	58.6	150
	13	100.0	96.7	90.0	82.0	64.7	25.3	6.7	.7		52.4	150
	16	100.0	96.7	90.7	85.3	67.3	36.0	10.0	4.7	.7	54.4	150
	19	100.0	96.7	97.3	95.3	90.0	80.0	54.7	17.3	4.0	69.2	150
	22	100.0	99.3	99.3	98.7	97.3	95.3	86.7	44.0	6.0	78.5	150
TOTALS		100.0	98.7	96.2	93.2	86.4	71.9	55.5	30.4	6.3	69.7	1200

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5706 RELATIVE HUMIDITY JAN 68

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93114
STATION

SANTA ANA, CALIFORNIA

SANTA ANA, CALIFORNIA

73-77

PERIOD

MAY
MONTH

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	01	100.0	100.0	100.0	100.0	99.4	98.7	93.5	67.1	19.4	84.0	155
	04	100.0	100.0	100.0	100.0	100.0	100.0	94.8	72.9	24.5	85.4	155
	07	100.0	100.0	100.0	100.0	100.0	99.4	88.4	53.5	16.1	81.6	155
	10	100.0	100.0	100.0	99.4	93.5	65.2	27.7	11.0	1.3	65.5	155
	13	100.0	100.0	98.7	95.5	86.5	41.3	9.7	3.9		59.0	155
	16	100.0	100.0	98.7	96.1	87.7	54.8	16.1	3.2		60.9	155
	19	100.0	100.0	100.0	100.0	97.4	89.0	69.7	19.4	3.2	74.0	155
	22	100.0	100.0	100.0	100.0	100.0	100.0	89.6	55.2	9.7	81.2	154
TOTALS		100.0	100.0	99.7	98.9	95.6	81.1	61.2	35.8	9.3	74.0	1239

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RELATIVE HUMIDITY

STATION
93114

STATION NAME
SANTA ANA, CALIFORNIA

SANTA ANA, CALIFORNIA

73-77

PERIOD

JUN
MONTH

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	01	100.0	100.0	100.0	100.0	99.3	98.7	94.0	83.3	24.7	86.2	150
	04	100.0	100.0	100.0	100.0	100.0	99.3	98.7	88.7	27.3	87.9	150
	07	100.0	100.0	100.0	100.0	99.3	96.0	92.7	66.0	18.0	83.2	150
	10	100.0	100.0	98.7	96.0	92.7	73.3	36.7	10.7		66.4	150
	13	100.0	100.0	98.0	90.0	76.7	48.7	8.0	2.7		58.1	150
	16	100.0	100.0	98.7	92.7	83.3	56.0	14.7	2.7		60.4	150
	19	100.0	100.0	100.0	98.7	96.0	90.0	65.3	30.0	2.0	73.5	150
	22	100.0	100.0	100.0	100.0	98.7	98.0	92.0	66.0	12.0	82.7	150
TOTALS		100.0	100.0	99.4	97.2	93.3	82.5	62.8	43.8	10.5	74.8	1200

STATION
93114

STATION NAME
SANTA ANA, CALIFORNIA

73-77

PERIOD

MONTH
JUL

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	01	100.0	100.0	100.0	100.0	100.0	100.0	97.4	89.0	12.9	86.0	155
	04	100.0	100.0	100.0	100.0	100.0	100.0	96.7	91.0	23.2	87.3	155
	07	100.0	100.0	100.0	100.0	100.0	99.4	96.1	71.6	12.9	83.4	155
	10	100.0	100.0	100.0	99.4	95.5	67.1	32.9	3.4	1.9	65.7	155
	13	100.0	100.0	99.4	97.4	86.5	34.8	6.5	1.3		58.6	155
	16	100.0	100.0	98.7	96.8	87.7	52.3	12.3	.6		60.6	155
	19	100.0	100.0	100.0	99.4	98.7	93.5	67.1	29.7	3.2	74.4	155
	22	100.0	100.0	100.0	100.0	99.4	99.4	94.8	73.5	12.9	83.1	155
TOTALS		100.0	100.0	99.8	99.1	96.0	80.8	63.2	45.6	8.4	74.9	1240

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RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

AUG
MONTH

73-77

SANTA ANA, CALIFORNIA
STATION NAME

93114
STATION

PERIOD

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	01	100.0	100.0	100.0	100.0	100.0	100.0	98.7	90.3	19.4	87.0	155
	04	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.9	24.5	87.8	155
	07	100.0	100.0	100.0	100.0	100.0	100.0	98.1	84.5	20.0	85.9	155
	10	100.0	100.0	100.0	100.0	97.4	74.2	32.9	7.1	1.3	66.7	155
	13	100.0	100.0	100.0	99.4	87.1	34.8	6.5	.6	.6	58.5	155
	16	100.0	100.0	100.0	98.1	92.3	45.2	14.8	3.9	.6	61.1	155
	19	100.0	100.0	100.0	100.0	99.4	96.8	83.9	34.8	1.3	76.2	155
	22	100.0	100.0	100.0	100.0	100.0	99.4	98.7	80.6	14.8	84.6	155
TOTALS		100.0	100.0	100.0	99.7	97.0	81.3	66.7	49.3	10.3	76.0	1260

RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

93114 STATION NAME SANTA ANA, CALIFORNIA PERIOD 73-77 MONTH SEP

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	01	100.0	100.0	98.7	98.0	98.0	97.3	94.6	85.2	23.5	85.2	149
	04	100.0	100.0	100.0	99.3	98.7	98.0	95.3	90.6	26.8	86.7	149
	07	100.0	100.0	100.0	99.3	98.0	97.3	94.0	81.3	24.0	85.0	150
	10	100.0	97.3	96.0	94.7	91.3	77.3	47.3	17.3	2.0	67.6	150
	13	100.0	98.0	96.0	92.7	84.7	46.7	11.3	4.0	.7	58.8	150
	16	99.3	98.0	96.7	95.3	88.0	66.0	24.0	6.0	.7	62.8	150
	19	100.0	98.7	98.0	96.0	94.7	93.3	84.7	49.3	6.0	76.9	150
	22	100.0	100.0	99.3	98.0	98.0	96.6	91.9	80.5	19.5	83.5	149
TOTALS		99.9	99.0	98.1	96.7	93.9	84.1	67.9	51.8	12.9	75.8	1197

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93114	SANTA ANA, CALIFORNIA	STATION NAME
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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	01	100.0	100.0	99.4	98.7	94.8	93.5	89.0	81.3	29.7	84.4	155
	04	100.0	100.0	99.4	99.4	96.8	94.2	91.0	79.4	31.0	85.0	155
	07	100.0	100.0	99.4	98.1	96.8	93.5	89.7	73.5	28.4	83.8	155
	10	100.0	96.8	91.0	87.7	86.5	71.0	40.0	14.8	3.9	64.4	155
	13	99.4	93.5	85.8	82.6	73.5	45.8	12.9	1.9		54.8	155
	16	100.0	94.8	89.0	85.2	80.0	61.9	21.3	3.9	.6	59.5	155
	19	100.0	99.4	98.7	96.1	90.3	88.4	78.1	54.8	7.7	76.5	155
	22	100.0	100.0	100.0	99.4	96.8	93.5	86.5	72.9	21.3	82.9	155
TOTALS		99.9	98.1	95.3	93.4	89.4	80.2	63.6	47.8	15.3	73.9	1260

RELATIVE HUMIDITY

STATION	STATION NAME	PERIOD	NOV	NORTH
93114	SANTA ANA, CALIFORNIA	73-77		

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	01	100.0	100.0	98.0	94.7	92.0	87.3	80.7	56.7	24.0	79.2	150
	04	100.0	98.7	98.7	97.3	93.3	90.7	78.7	58.7	29.3	80.3	150
	07	100.0	98.7	98.7	97.3	94.7	87.3	76.0	58.7	30.0	79.8	150
	10	99.3	97.3	88.7	77.3	64.7	50.0	33.3	18.7	7.3	59.5	150
	13	100.0	86.7	79.3	67.3	52.7	23.3	6.0	.7		47.2	150
	16	100.0	94.0	88.0	77.3	64.0	44.7	18.0	4.0	.7	55.0	150
	19	100.0	98.7	96.7	93.3	90.0	80.0	63.3	45.3	10.0	73.2	150
	22	100.0	98.7	97.3	93.3	88.7	82.7	73.3	54.7	24.0	77.0	150
TOTALS		99.9	96.6	93.2	87.2	80.0	68.3	53.7	37.2	15.7	68.9	1200

RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

DEC
MONTH

PERIOD

73-77

SANTA ANA, CALIFORNIA
STATION NAME

93114
STATION

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	01	100.0	99.4	96.1	92.9	91.0	83.2	76.1	60.0	34.2	79.0	155
	04	100.0	98.7	96.8	94.8	92.9	85.8	78.7	62.6	31.6	79.6	155
	07	100.0	99.4	96.8	94.2	91.6	86.5	77.4	57.4	34.8	79.1	155
	10	100.0	98.1	91.6	81.9	70.3	56.8	42.6	18.7	9.0	62.7	155
	13	100.0	93.5	81.3	69.7	60.0	35.5	14.2	5.2	2.6	51.3	155
	16	100.0	96.1	87.7	78.1	66.5	49.7	29.7	9.7	1.3	57.3	155
	19	100.0	99.4	95.5	92.3	87.7	80.6	72.3	47.7	13.5	74.6	155
	22	100.0	99.4	95.5	91.0	88.4	83.2	74.8	58.1	25.8	77.5	155

RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

ALL
MONTH

73-77

93114 SANTA ANA, CALIFORNIA

STATION NAME

PERIOD

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	99.9	97.5	92.3	84.9	77.3	64.7	52.7	34.7	13.4	67.5	1240
FEB		100.0	98.0	94.2	89.6	82.9	73.8	61.7	43.1	21.6	72.0	1128
MAR		99.9	98.8	96.0	92.8	86.6	74.4	58.0	33.9	12.6	71.0	1240
APR		100.0	98.7	96.2	93.2	86.4	71.9	55.5	30.4	8.3	69.7	1200
MAY		100.0	100.0	99.7	98.9	95.6	81.1	61.2	35.8	9.3	74.0	1239
JUN		100.0	100.0	99.4	97.2	93.3	82.5	62.8	43.8	10.5	74.8	1200
JUL		100.0	100.0	99.8	99.1	96.0	80.8	63.2	45.6	8.4	74.9	1240
AUG		100.0	100.0	100.0	99.7	97.0	81.3	66.7	49.3	10.3	76.0	1240
SEP		99.9	99.0	98.1	95.7	92.9	84.1	67.9	51.8	12.9	75.8	1197
OCT		99.9	98.1	95.3	93.4	89.4	80.2	63.6	47.8	15.3	73.9	1240
NOV		99.9	96.6	93.2	87.2	80.0	68.3	53.7	37.2	15.7	68.9	1200
DEC		100.0	98.0	92.7	86.9	81.1	70.2	58.2	39.9	19.1	70.1	1240
TOTALS		100.0	98.7	96.4	93.3	88.3	76.1	60.4	41.1	13.1	72.4	14604

PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VS.

WIND DIRECTION

93114

SANTA ANA, CALIFORNIA

JAN 1973-DEC 1977

JANUARY

ALL

HOURS (L.S.T.)

STATION NAME

YEARS

MONTH

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91		100.0			14.3	14.3	28.6			2	.2
82 TO 86	14.3	28.6				19.0	33.3	14.3	4.8	7	.6
77 TO 81	4.8	9.5	14.3							21	1.7
72 TO 76	2.8	16.7	5.6		5.6	11.1	38.9	13.9	5.6	36	2.9
67 TO 71	3.1	10.9	4.7		6.3	12.5	45.3	7.8	9.4	64	5.2
62 TO 66	.8	6.7	5.9		5.0	10.9	47.9	7.6	10.9	119	9.6
57 TO 61	2.6	4.2	8.4	4.2	5.3	14.7	21.6	4.7	26.8	190	15.3
52 TO 56	3.8	11.7	10.9	10.2	10.5	5.6	10.5	4.9	32.0	266	21.5
47 TO 51	4.2	7.4	14.4	15.3	5.6	1.4	2.8	2.3	46.8	216	17.4
42 TO 46	3.0	15.6	13.1	5.0	2.0			.5	60.8	199	16.0
37 TO 41	4.3	19.4	25.8	1.1	1.1				48.4	93	7.5
32 TO 36	7.7	30.8	19.2	3.8					38.5	26	2.1
27 TO 31		100.0								1	.1
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	3.4	11.3	11.8	7.0	6.5	6.1	14.8	4.0	35.1	1240	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

SANTA ANA, CALIFORNIA

JAN 1973-DEC 1977

FEBRUARY

ALL

STATION NAME

YEARS

MONTH

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81	11.8	5.9	25.5		5.9	11.8	100.0			4	.4
72 TO 76		13.8	10.3		3.4	13.8	41.2			17	1.5
67 TO 71	3.0	6.1	4.5		7.6	10.6	55.2	3.4		29	2.6
62 TO 66	1.5	5.3	7.6		3.8	22.7	62.1	3.0		66	5.9
57 TO 61	.9	.9	7.5	3.0	16.4	12.2	43.9	2.3		132	11.7
52 TO 56	1.5	2.9	16.1	8.0	18.3	7.3	29.6	5.2	19.2	213	18.9
47 TO 51	1.8	12.4	19.3	13.3	4.6	1.6	7.0	2.2	30.8	273	24.2
42 TO 46	1.6	14.4	22.4	3.2	2.4		2.3	.9	43.6	210	19.3
37 TO 41	4.4	6.7	24.4	4.4					56.0	125	11.1
32 TO 36	16.7	33.3	16.7						60.0	43	4.0
27 TO 31									33.3	6	.5
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	1.9	6.7	14.4	8.3	9.8	8.2	18.9	2.1	29.7	1128	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

93114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

WIND DIRECTION

JAN 1973-DEC 1977

YEARS

MARCH

MONTH

ALL

HOURS (L.S.T.)

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76											
67 TO 71											
62 TO 66											
57 TO 61											
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LVR											
TOTALS	2.0	5.8	7.3	8.5	10.1	10.8	22.3	2.7	30.4	124.0	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

93114

SANTA ANA, CALIFORNIA

STATION

WIND DIRECTION

JAN 1973-DEC 1977

YEARS

APRIL

MONTH

ALL

HOURS L.S.T.

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86			8.3		4.2	25.0	100.0			1	.1
77 TO 81	5.9	4.2				21.6	58.3	3.9	5.9	24	2.0
72 TO 76	2.0	9.8			4.9	25.3	52.9	1.0	1.0	51	4.3
67 TO 71	1.0	2.9				23.7	62.7	4.6	6.7	102	8.5
62 TO 66	.8	1.0	2.6	2.1	14.9	18.2	43.3	4.0	18.6	194	16.2
57 TO 61	.6	.8	4.7	9.5	19.4	7.4	24.1	2.5	39.8	253	21.1
52 TO 56	1.0	2.8	10.5	13.3	13.6	.5	9.6	1.9	63.2	324	27.0
47 TO 51		5.7	11.5	11.0	4.3		1.0		80.6	209	17.4
42 TO 46		2.8	11.1	5.6					100.0	36	3.0
37 TO 41										6	.5
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	1.1	2.9	6.8	8.0	11.4	13.3	23.7	2.8	30.0	1200	100.0

NAVWEASERVCOM

5709 FREQ. AIR TEMP. S. WIND DIR. JAN. 68

PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VS.

WIND DIRECTION

93114

SANTA ANA, CALIFORNIA

JAN 1973-DEC 1977

MAY

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS 1-5.7J

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101						100.0				1	.1
92 TO 96										1	.1
87 TO 91										5	.4
82 TO 86							100.0	20.0		13	1.0
77 TO 81						7.7	84.6	7.7		69	5.6
72 TO 76					2.9	13.0	79.7	2.9	1.4	165	13.3
67 TO 71	1.2		1.2	2.4	2.4	32.1	47.9	6.1	6.7	284	22.9
62 TO 66	1.4		.4	3.2	14.4	31.7	38.0	.7	10.2	487	39.3
57 TO 61	1.6	.6	3.9	9.2	20.9	13.8	14.4	1.8	33.7	170	13.7
52 TO 56		1.8	9.4	11.8	8.2	5.9	7.1		55.9	39	3.1
47 TO 51		2.6	7.7	2.6	2.6				84.6	5	.4
42 TO 46				20.0					80.0		
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-12 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	1.1	.6	3.3	6.5	13.2	18.6	27.4	2.9	27.2	1239	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VS.

WIND DIRECTION

SANTA ANA, CALIFORNIA

93114

STATION

JAN 1973-DEC 1977

YEARS

JUNE

MONTH

ALL

HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NINW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106							100.0			1	.1
97 TO 101							100.0			1	.1
92 TO 96							100.0			5	.4
87 TO 91	5.0				5.0	5.0	80.0	5.0		20	1.7
82 TO 86					6.9	17.2	69.0	3.4	3.4	29	2.4
77 TO 81					1.8	12.3	75.4	7.0	3.5	57	4.8
72 TO 76					5.9	20.1	65.7	3.0	5.3	169	14.1
67 TO 71	.5			2.0	12.0	23.5	48.0	3.0	11.0	200	16.7
62 TO 66	1.1	.8	3.2	6.1	24.7	21.8	18.8	1.9	21.8	377	31.4
57 TO 61	.7	3.0	5.9	9.2	15.5	6.9	6.9	1.7	50.2	303	25.3
52 TO 56		7.9	7.9	5.3					78.9	38	3.2
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LVP											
TOTALS	.7	1.3	2.8	4.8	14.8	16.4	32.1	2.4	24.8	1200	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

STATION NAME **SANTA ANA, CALIFORNIA** WIND DIRECTION **JAN 1973-DEC 1977** MONTH **JULY** ALL HOURS (L.S.T.)

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91		11.1	1.9			44.4	100.0			2	.2
82 TO 86			.6			29.6	61.1	7.4		18	1.5
77 TO 81					4.5	22.7	66.9	2.6		34	4.4
72 TO 76	1.2		.4		7.5	18.3	58.1	6.6	2.6	134	12.4
67 TO 71	1.3	.3	1.3	5.6	10.5	19.7	30.6	2.6	7.5	241	19.4
62 TO 66	.8	1.3	6.5	7.0	19.6	14.0	10.9	2.1	28.0	304	24.5
57 TO 61	1.3	4.0	6.7	9.3	8.0	1.3	1.3		38.0	387	31.2
52 TO 56			20.0						68.0	75	6.0
47 TO 51									80.0	5	.4
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	.9	.9	3.1	4.2	11.2	17.6	34.0	3.2	24.9	1240	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VS.

WIND DIRECTION

JAN 1973-DEC 1977

AUGUST

ALL

SANTA ANA, CALIFORNIA

93114

STATION NAME

YEARS

MONTH

WIND DIRECTION

TEMP.	NW & N	NE & NE	E & E	SE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76											
67 TO 71											
62 TO 66											
57 TO 61											
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWP											
TOTALS	1.0	1.0	3.4	4.3	10.5	10.9	3.0	2.7	29.8	1240	100.0

NAVWEASERVCOM

5709 FREQ. VS. TEMP. VS. WIND DIR. JAN. 68

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

93114 STATION NAME
SANTA ANA, CALIFORNIA

JAN 1973-DEC 1977 YEARS

SEPTEMBER MONTH
ALL HOURS (L.S.T.)

STATION

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101			33.3				66.7			3	.3
92 TO 96			3.3				83.3	8.3		12	1.0
87 TO 91	6.3	6.3				25.0	56.3	7.0	6.3	16	1.3
82 TO 86						11.6	81.4			43	3.6
77 TO 81	1.9	1.0	1.0		1.0	19.2	70.2	1.9	3.8	104	8.7
72 TO 76	1.9	1.0	1.0	2.4	8.2	18.8	53.1	4.8	9.7	207	17.3
67 TO 71	3.1	2.0	1.4	6.3	14.6	14.9	20.9	3.4	33.4	350	29.2
62 TO 66	2.6	.6	2.6	6.1	10.5	4.8	16.0	3.8	53.0	313	26.1
57 TO 61	.8	1.6	9.5	5.6	5.6	1.6	2.4	.8	72.2	126	10.5
52 TO 56		4.8	4.8						90.5	21	1.8
47 TO 51									100.0	2	.2
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	2.3	1.2	2.6	4.4	9.1	11.4	30.5	3.4	35.1	1197	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

STATION NAME
SANTA ANA, CALIFORNIA

YEARS
JAN 1973-DEC 1977

MONTH
OCTOBER

HOURS (L.S.T.)
ALL

WIND DIRECTION

TEMP.	NINW & N	NNE & NE	ESE & E	ENE & E	ESE & SE	SEE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+												
117 TO 121												
112 TO 116												
107 TO 111												
102 TO 106												
97 TO 101												
92 TO 96												
87 TO 91												
82 TO 86												
77 TO 81												
72 TO 76												
67 TO 71												
62 TO 66												
57 TO 61												
52 TO 56												
47 TO 51												
42 TO 46												
37 TO 41												
32 TO 36												
27 TO 31												
22 TO 26												
17 TO 21												
12 TO 16												
7 TO 11												
2 TO 6												
-3 TO 1												
-8 TO -4												
-13 TO -9												
-18 TO -14												
-23 TO -19												
-28 TO -24												
-33 TO -29												
-38 TO -34												
-43 TO -39												
-48 TO -44												
-53 TO -49												
-58 TO -54												
-59 & LWR												
TOTALS	2.3	4.6	7.1	5.2	7.7	8.5	26.3	3.9	35.0	1240	100.0	

NAVWEASERVCOM

5703 FREQ. AIR TEMP. VS. WIND DIR. JAN. 68

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

93114

SANTA ANA, CALIFORNIA

WIND DIRECTION

JAN 1973-DEC 1977

NOVEMBER

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NW & N	NNE & NE	ESE & E	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +										
117 TO 121										
112 TO 116										
107 TO 111										
102 TO 106										
97 TO 101										
92 TO 96						100.0			2	.2
87 TO 91	9.1	9.1			9.1	54.5	9.1	9.1	11	.9
82 TO 86	3.6	14.3			7.1	60.7	10.7		28	2.3
77 TO 81	8.5	10.6	4.3		4.3	59.6	6.4	2.1	47	3.9
72 TO 76	1.4	1.4	1.4		4.1	55.4	8.1	16.2	74	6.2
67 TO 71	2.0	4.9	2.9		13.7	47.1	9.8	15.7	102	8.5
62 TO 66	3.1	4.3	6.2		9.3	38.3	6.8	21.0	162	13.5
57 TO 61	2.8	6.3	11.8		6.3	14.2	3.1	34.6	234	21.2
52 TO 56	1.4	8.3	13.7		.5	2.8	2.8	54.2	216	18.0
47 TO 51	.5	12.0	16.9		1.1	3.3	1.1	53.7	183	15.3
42 TO 46	3.0	10.0	19.0		5.0	2.0	1.0	53.0	100	8.3
37 TO 41		5.0	5.0		5.0			60.0	20	1.7
32 TO 36								100.0	1	.1
27 TO 31										
22 TO 26										
17 TO 21										
12 TO 16										
7 TO 11										
2 TO 6										
-3 TO 1										
-8 TO -4										
-13 TO -9										
-18 TO -14										
-23 TO -19										
-28 TO -24										
-33 TO -29										
-38 TO -34										
-43 TO -39										
-48 TO -44										
-53 TO -49										
-58 TO -54										
-59 & LWR										
TOTALS	2.3	7.2	12.0	5.9	4.7	21.2	4.3	36.6	1200	100.0

NAVWEASERVCOM

5709 FREQ. VS. TEMP. VS. WIND DIR. JAN 1973-DEC 1977

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

93114

SANTA ANA, CALIFORNIA

JAN 1973-DEC 1977

DECEMBER

ALL

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ESE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86	25.0	23.5					50.0	25.0		4	.3
77 TO 81	5.9	11.8	23.5				52.9	5.9		17	1.4
72 TO 76	2.3	9.3	9.3				23.3	2.3	14.0	43	3.5
67 TO 71	2.2	13.0	1.1	6.5			51.1	6.5	8.7	92	7.4
62 TO 66	2.1	10.3	7.5	13.0			37.0	4.1	10.3	145	11.8
57 TO 61	3.9	4.8	6.1	11.4			16.2	3.9	29.3	229	18.5
52 TO 56	3.2	6.5	13.8	12.1			2.4	2.0	42.1	247	19.9
47 TO 51	2.6	11.6	19.8	7.3	3.9		1.3	1.3	51.7	232	18.7
42 TO 46	1.4	14.0	25.2	2.8	3.5	.7			52.4	143	11.5
37 TO 41	2.4	13.4	20.7	4.9					58.5	82	6.6
32 TO 36									100.0	5	.4
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	2.7	7.7	16.2	6.9	7.7	5.7	14.4	2.6	36.1	1240	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

73114
STATION

SANTA ANA, CALIFORNIA
STATION NAME

WIND DIRECTION

JAN 1973-DEC 1977

YEARS

ALL

MONTH

ALL

HOURS (L.S.T.)

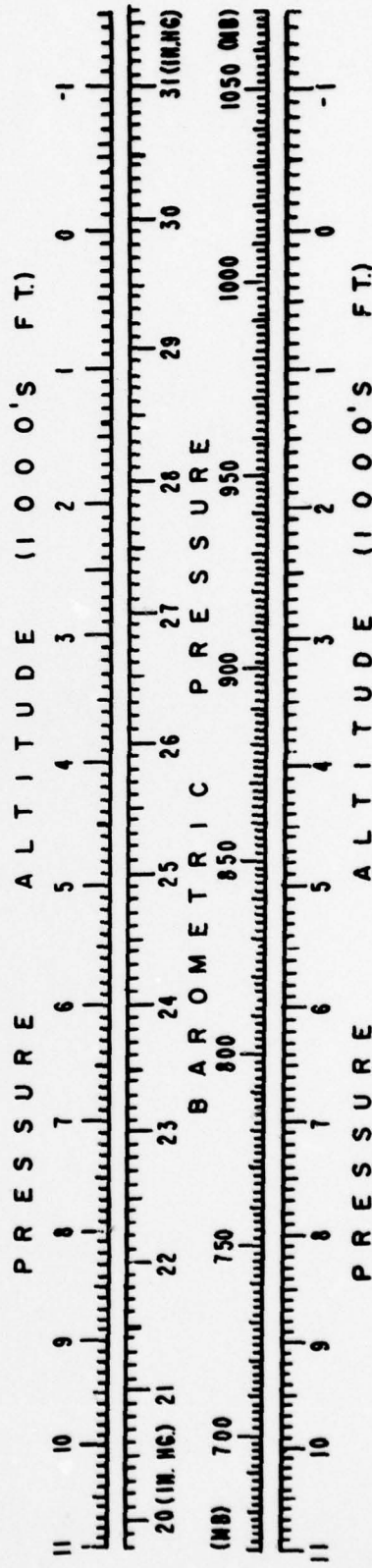
TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WINW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106							100.0			1	.0
97 TO 101			20.0				80.0			5	.0
92 TO 96			3.6			3.6	85.7	7.1		28	.2
87 TO 91	3.4	6.7	2.2		2.2	19.1	58.4	5.6	2.2	89	.6
82 TO 86	.8	1.6	2.4		1.2	13.4	72.8	6.5	1.2	246	1.7
77 TO 81	1.8	2.1	2.7	.1	2.5	15.0	67.9	4.4	3.4	708	4.8
72 TO 76	1.4	1.6	1.4	.7	5.6	17.8	58.8	5.2	7.6	1290	8.8
67 TO 71	1.5	2.1	2.2	3.3	10.9	17.6	39.0	4.2	19.2	2046	14.0
62 TO 66	1.7	2.4	5.1	5.8	13.9	15.1	25.3	2.9	27.8	2931	20.1
57 TO 61	1.8	3.1	7.3	8.3	14.2	11.2	15.6	2.7	35.9	2782	19.0
52 TO 56	1.7	5.7	11.8	10.7	11.5	4.9	8.4	2.4	42.9	2015	13.8
47 TO 51	2.0	8.9	15.0	11.5	4.3	.9	2.4	1.4	53.6	1398	9.6
42 TO 46	2.0	12.9	18.1	4.3	2.5	.1	.3	.4	59.4	752	5.1
37 TO 41	3.3	13.2	24.2	3.7	.7				54.9	273	1.9
32 TO 36	7.7	28.2	15.4	2.6					46.2	39	.3
27 TO 31	100.0									1	.0
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LVR											
TOTALS	1.8	4.3	7.5	6.1	9.8	11.1	25.2	5.0	31.2	14604	100.0

PART F PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

73-77

SANTA ANA, CALIFORNIA

93114

YEARS

STATION NAME

STATION

HRS.(LST.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN S. D. TOTAL OBS	1018.3 3.685 155	1018.6 3.467 141	1016.1 3.756 155	1015.9 2.819 150	1012.6 2.319 150	1013.2 1.994 155	1013.3 1.910 155	1012.9 2.206 150	1014.9 2.362 155	1016.5 3.342 150	1018.1 3.124 155	1015.4 3.532 1826
04	MEAN S. D. TOTAL OBS	1018.0 3.725 155	1018.0 3.496 141	1015.4 3.721 155	1013.7 2.401 155	1012.3 2.330 150	1013.0 1.985 155	1013.1 1.911 155	1012.5 2.244 150	1014.6 2.357 155	1016.3 3.356 150	1017.9 3.178 155	1015.0 3.521 1826
07	MEAN S. D. TOTAL OBS	1018.6 3.729 155	1018.8 3.561 141	1016.2 3.842 155	1014.6 2.467 155	1013.2 2.299 150	1014.0 1.977 155	1014.1 1.963 155	1013.5 2.278 150	1015.5 2.400 155	1017.1 3.385 150	1018.6 3.156 155	1015.9 3.485 1826
10	MEAN S. D. TOTAL OBS	1019.9 3.641 155	1019.7 3.514 141	1017.0 3.793 155	1014.8 2.442 155	1013.4 2.331 150	1014.1 1.952 155	1014.3 1.956 155	1013.9 2.410 150	1015.9 2.444 155	1017.9 3.385 150	1019.6 3.173 155	1016.4 3.685 1826
13	MEAN S. D. TOTAL OBS	1017.5 3.514 155	1018.0 3.468 141	1015.7 3.650 155	1014.1 2.371 155	1012.6 2.351 150	1013.2 1.879 155	1013.2 1.968 155	1012.4 2.379 150	1014.0 2.382 155	1015.7 3.317 150	1017.3 3.135 155	1014.9 3.375 1826
16	MEAN S. D. TOTAL OBS	1017.0 3.584 155	1017.1 3.278 141	1014.6 3.596 155	1013.2 2.272 155	1011.8 2.317 150	1012.2 1.904 155	1012.1 2.024 155	1011.5 2.343 150	1013.4 2.404 155	1015.2 3.339 150	1016.9 3.076 155	1014.1 3.433 1826
19	MEAN S. D. TOTAL OBS	1017.9 3.710 155	1018.0 3.334 141	1015.3 3.681 155	1013.6 2.279 155	1012.0 2.316 150	1012.4 1.928 155	1012.3 2.002 155	1012.1 2.265 150	1014.3 2.381 155	1016.2 3.509 150	1017.7 3.139 155	1014.7 3.585 1826
22	MEAN S. D. TOTAL OBS	1018.7 3.666 155	1018.7 3.450 141	1016.2 3.723 155	1014.6 2.335 154	1013.0 2.353 150	1013.6 1.915 155	1013.4 1.942 155	1013.0 2.236 150	1015.1 2.322 155	1016.9 3.524 150	1018.3 3.143 155	1015.6 3.527 1825
ALL HOURS	MEAN S. D. TOTAL OBS	1018.3 3.733 1240	1018.4 3.510 1128	1015.8 3.767 1240	1014.1 2.423 1239	1012.6 2.378 1200	1013.2 2.037 1240	1013.2 2.079 1240	1012.7 2.398 1200	1014.7 2.494 1240	1016.5 3.474 1200	1018.0 3.226 1240	1015.3 3.581 14607

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

73-77

STATION NAME

YEARS

HRS.(L.S.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN	30.009	30.013	29.944	29.936	29.886	29.841	29.859	29.861	29.848	29.910	29.956	29.922
	S. D.	.109	.103	.111	.084	.071	.069	.060	.056	.066	.071	.099	.103
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	1826
04	MEAN	30.001	30.001	29.922	29.920	29.873	29.832	29.852	29.854	29.837	29.898	29.948	29.911
	S. D.	.110	.103	.110	.084	.071	.070	.059	.057	.067	.071	.099	.104
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	1826
07	MEAN	30.018	30.022	29.948	29.951	29.900	29.859	29.881	29.883	29.869	29.924	29.974	29.937
	S. D.	.110	.105	.114	.084	.073	.069	.059	.059	.068	.071	.100	.103
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	1826
10	MEAN	30.053	30.050	29.971	29.961	29.905	29.863	29.876	29.889	29.877	29.939	29.995	29.952
	S. D.	.107	.104	.111	.083	.072	.070	.099	.058	.072	.073	.100	.112
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	1826
13	MEAN	29.986	29.999	29.933	29.928	29.883	29.841	29.859	29.857	29.835	29.882	29.931	29.909
	S. D.	.104	.100	.107	.080	.071	.070	.056	.059	.071	.071	.098	.100
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	1826
16	MEAN	29.971	29.974	29.902	29.898	29.857	29.817	29.827	29.824	29.807	29.863	29.917	29.885
	S. D.	.106	.097	.106	.079	.067	.069	.057	.060	.069	.072	.099	.102
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	1826
19	MEAN	29.998	29.999	29.920	29.911	29.868	29.823	29.835	29.832	29.825	29.891	29.945	29.903
	S. D.	.110	.098	.109	.080	.067	.068	.057	.058	.067	.071	.103	.106
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	1826
22	MEAN	30.021	30.020	29.948	29.941	29.899	29.851	29.869	29.863	29.853	29.914	29.966	29.929
	S. D.	.108	.102	.110	.081	.069	.070	.056	.057	.066	.069	.104	.104
	TOTAL OBS	155	141	155	150	154	150	155	155	150	155	150	1825
ALL HOURS	MEAN	30.007	30.010	29.936	29.931	29.884	29.841	29.857	29.858	29.844	29.903	29.954	29.918
	S. D.	.110	.103	.111	.084	.072	.071	.067	.062	.072	.074	.103	.106
	TOTAL OBS	1240	1128	1240	1200	1239	1200	1240	1240	1200	1240	1200	14607